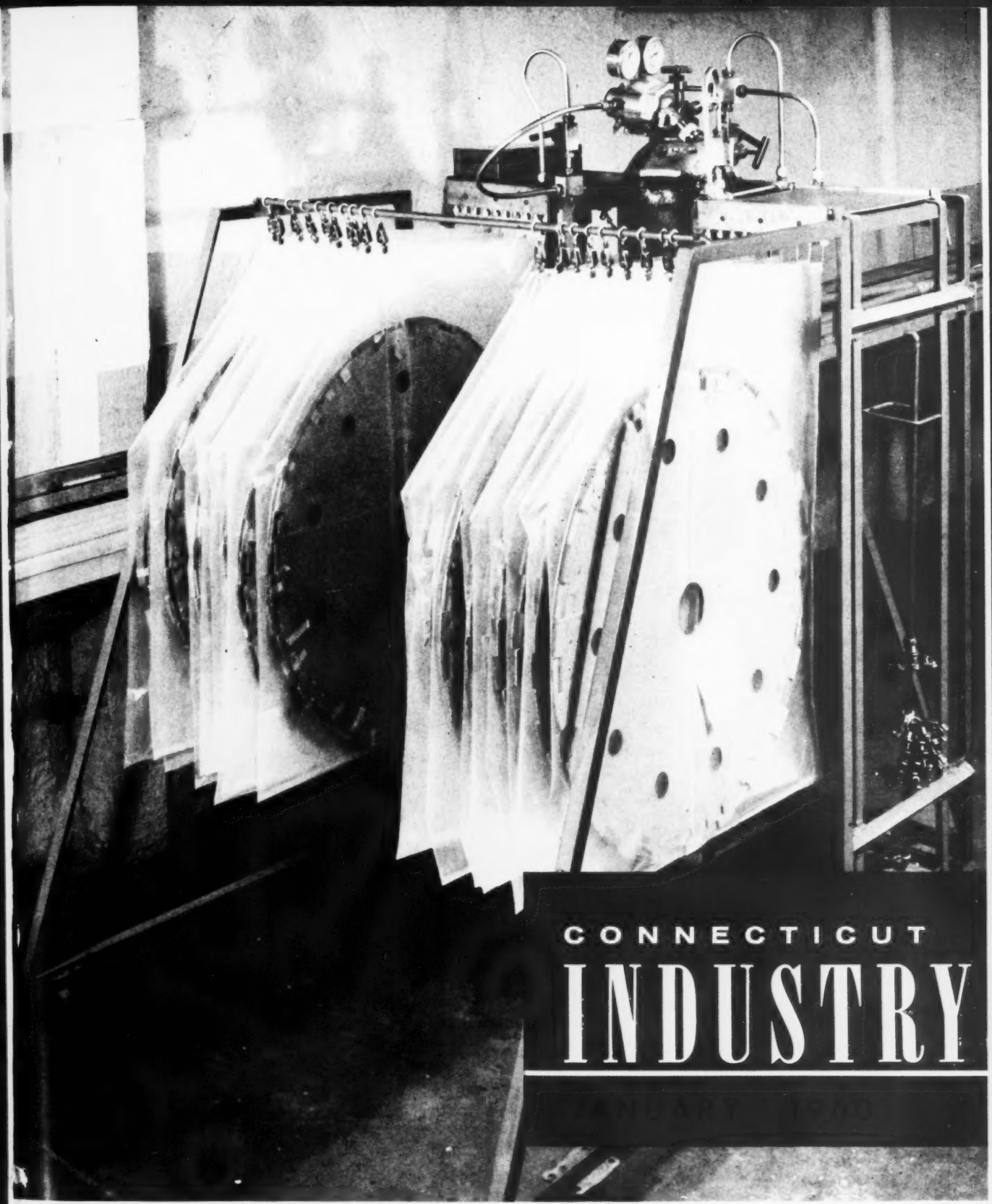


CONNECTICUT

INDUSTRY

THERMOCOUPLE – KEY TO TECHNICAL REVOLUTION Page 6

Take the Handcuffs off your "Star Salesman"!

See how Long Distance telephone service can boost sales while cutting sales costs

Whatever business you're in, a SYSTEMATIC use of out-of-town calling should be part of your sales program. It can effectively help you obtain new customers . . . keep present customers sold . . . revive inactive accounts.

Dozens of helpful plans and techniques — all utilizing Long Distance — have been worked out by our specialists in this field. These are specific suggestions that have already proved their value in building profits for a wide variety of businesses. (A few of these businesses are listed below.)

Without any obligation to you, we'll be glad to pass these valuable suggestions along to you. Just call our business office. A specialist in Long Distance will visit you at your convenience and work out selling plans that are tailored for your business.

These Businesses Found the "KEY" That Unlocks Extra Sales:

A PARTS DISTRIBUTOR invites out-of-town customers to telephone their orders collect. In seven months, the plan has brought in $17,798 in sales. Sales cost: less than 2%.

A FARM EQUIPMENT WHOLESALER telephones out-of-town customers to thank them for their orders. Four of these calls, costing $4.60, brought $1,180. in additional sales.

A MANUFACTURER OF CUSTOM EXTRUSIONS uses the phone to build good will with out-of-town customers. Calls costing only $14.85 produced $1,821. in orders in just one month.

THE SOUTHERN NEW ENGLAND *Telephone* COMPANY

CONNECTICUT
INDUSTRY

JANUARY • 1960

VOLUME 38 NUMBER 1

THIS MONTH'S cover shows a Helium leak testing operation at Harco Laboratories, New Haven. Completed thermocouple is wrapped on disc. Enclosed in polyethylene bags, Helium is forced into and through couple. Leaks are detected by mass spectrometer.

In This Issue

	Page
Editorial	5
Thermocouple—Key to Technical Revolution	6
Bullard Introduces New Turret Lathes	8
Association Officers and New Directors	10
Summer Science Center at Loomis	12
Norris W. Ford Retires	14
Making Employee Surveys Work	15
News Forum	17
How Would You Decide?	31
Public Relations	35
With Our Advertisers and Their Agencies	39
Accounting Hints	41
Business Tips	43
Business Pattern	45
Spotlight on the Future	47
Products and Services	48
Advertising Index	60

Published monthly by the Manufacturers Association of Connecticut, Inc., with executive offices at 928 Farmington Avenue, West Hartford, Connecticut. Entered as second-class matter January 29, 1929, at the post office at Hartford, Connecticut, under the Act of March 3, 1879. As the official magazine of the Manufacturers Association of Connecticut, Inc., it carries authoritative articles and notices concerning the Association activities. In all other respects the Association is not responsible for the contents nor for the opinion of its writers. Subscription rates: one year $3.00; 30¢ a copy. Subscribers should notify publisher promptly of changes in address. Advertising rates on application.

L. M. BINGHAM, *Editor*

OFFICERS

HARVEY SPAUNBURG ..... *President*
CARLYLE F. BARNES ..... *Vice President*
A. W. CAVEDON ..... *Vice President*
JOHN COOLIDGE ..... *Treasurer*
FREDERICK H. WATERHOUSE *Exec. Vice President*
L. M. BINGHAM ..... *Secretary*

DIRECTORS

CRAIG D. MUNSON ..... *Meriden*
A. S. REDWAY ..... *New Haven*
J. L. SCHWEYER ..... *South Coventry*
FREDERICK T. ALLEN ..... *Stamford*
B. G. TREMAINE, JR. ..... *Meriden*
WELLS C. BATES ..... *Chester*
J. ARTHUR ATWOOD, 3RD. ..... *Wauregan*
JACK T. F. BITTER ..... *Hartford*
LUCIUS S. ROWE ..... *New Haven*
HAROLD LEEVER ..... *Waterbury*
JOHN DOUGLAS ..... *Danbury*
H. M. DAY ..... *Stamford*
R. W. BISSONNETTE ..... *Stafford Springs*
VINCENT T. RODDY ..... *Willimantic*
KENNETH E. STOBER ..... *Ledyard*
JOHN B. BODEN ..... *Middletown*
PAUL K. ROGERS, JR. ..... *New Britain*
LYMAN C. THUNFORS ..... *Bridgeport*
R. T. DUNLAP ..... *Torrington*
W. H. FIEWEGER ..... *New Milford*
HENRY A. TRUSLOW ..... *Taftville*

ADMINISTRATIVE STAFF

FREDERICK H. WATERHOUSE *Exec. Vice President*
L. M. BINGHAM . *Sec. and Dir. of Development*
CHARLES H. SCHREYER ..... *Attorney*
ARTHUR L. WOODS ..... *Insurance Manager*
JOHN D. HUBBARD ..... *Field Representative*
JOHN B. HEDGES .... *Traffic and Export Mgr.*
CHARLES E. REICHE . *Public Relations Director*

DEPARTMENTAL STAFF

RUTH J. SKOGLUND
KATHERINE M. EDGERTON
MILDRED H. FORSELL
FLORENCE E. KRUK
MARGARET M. MOORE
JUDITH A. PLOUCQUET
FRANCES W. WILKINSON
MARION E. ROBINSON
JUNE SHAVER
CHARLENE D. KAESER
VIRGINIA C. STARR
VINCENT D. CASTAGNO

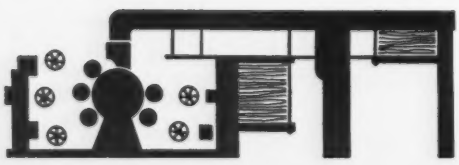
COLOR

CATCHES THE

So TODAY business and industry are using color more extensively and more effectively than ever before . . . in their products, in their packages and displays, and in every kind of printed presentation. In a recent issue of "Modern Packaging," for example, advertisers used more than twice as many full-page color ads as they did black-and-white.

To keep pace with this ever-increasing use of color by advertisers and publishers, Hildreth Press recently installed a 64-page two-color web magazine press and a five-color sheet-fed rotary press. These two units, added to our 17 other two-color presses, provide a complete range of precision color printing equipment crewed by experienced pressmen.

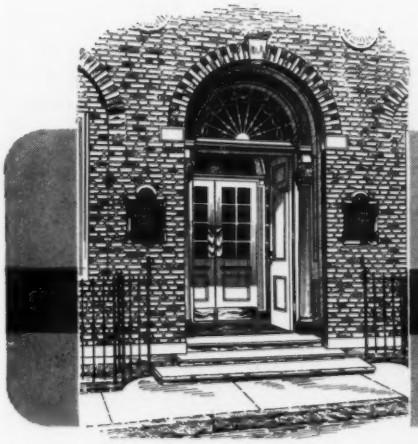
If your catalog, house organ and/or advertising materials can profit from the tremendous added appeal of color we will welcome an opportunity to discuss the possibilities with you.



HILDRETH PRESS

Telephone LUdlow 2-9551, Bristol, Connecticut

FOR Business People ON THE GO!



THE DOORWAY TO
ROUND-THE-CLOCK PROTECTION
THROUGH THE MAC PLAN
OF TRAVEL ACCIDENT INSURANCE

Your Company Can Benefit From the Travel Accident Plan Sponsored by the MANUFACTURERS ASSOCIATION OF CONNECTICUT

The MAC Plan provides around-the-clock insurance protection for each and every employee of your firm while he is on a business trip away from his city of assignment or residence.

It provides high limit coverage for the special hazards of business travel, supplementing the usual Group insurance programs.

It establishes definite insurance benefits at a known cost, avoiding the necessity of embarrassing "charity decisions" in the event of death or serious accident.

The coverage is world-wide. The benefits apply to a business trip accident *anywhere*—regardless of the trip's length.

It includes coverage for almost all forms of air travel—in fact travel in just about everything that flies, rolls, or floats.

In the competitive personnel market, the Plan will help you to acquire and hold executive-caliber employees.

It utilizes the mass purchasing power of participating member companies to provide broad benefits at low cost.

We will be happy to furnish your firm with complete details. No obligation, of course.
We are as near to you as your telephone.

31 Lewis Street
Hartford

41 E. 42nd Street
New York

Allen, Russell & Allen
Benjamin & Connor, Inc.
Fred H. Williams & Co.

Hartford Phones: JA 2-3245, JA 2-7281, JA 5-1171

ALL FORMS OF INSURANCE

FUSTEST with the MOSTEST

Many Southerners would deny that General Forrest spoke thus quaintly in explaining his record of Confederate victories. Be that as it may, the words give vivid expression to the aim and accomplishment of

T.A.D. JONESERVICE

since 1925—speeding quality fuels at proper prices to the mills, factories and utilities of Southern New England.

QUICK DELIVERY *of quality BUNKER "C" OIL, Pennsylvania & West Virginia BITUMINOUS COAL by barge, rail or truck throughout Connecticut and Western Massachusetts*

T. A. D. JONES & CO. INC.

NEW HAVEN: UNiversity 5-6103 • BRIDGEPORT: EDison 3-3123
After hours: New Haven HObart 7-2533 for Coal, HObart 7-0766 for Oil

Is There To Be A Change In Our Foreign Trade Policies?

By CRAIG D. MUNSON, *President*
The International Silver Company, Meriden

♦ THERE are signs that our present Administration in Washington may make history in our foreign trade policies. It may well be the first to effectively enforce the safeguards for American industry written into the Trade Agreements Act, and thereby provide the protection Congress intended U. S. industry to have when injured by foreign competition.

True, no major change is yet evident, but hope is engendered by these present signs. They can mark the turning point between the days when foreign manufacturers could absorb the U. S. market for any product at will, with consequent loss of volume by U. S. industries and loss of jobs by its workers, and the return to a proper and equitable balance of opportunity for domestic and foreign producers alike.

In the first action of its kind, and exceedingly important to the flatware industry and its many workers in Connecticut, President Eisenhower recently proclaimed an annual quota limitation of 5,750,000 dozens on imports, from all foreign countries, of stainless steel flatware having a foreign value of less than $3.00 per dozen. At the same time, he increased duties sharply on quantities of such flatware imported in excess of the quota. He made no change in duties and did not limit imports of stainless steel flatware having a foreign value in excess of $3.00 per dozen.

The attempt to be fair to both domestic and foreign interests is obvious in this action by President Eisenhower. The quantity of stainless flatware which may still enter the U. S. annually at present duty rates assures foreign countries of a share of the U. S. market. Beyond that point, the application of increased duties is intended to make foreign products, manufactured at the low wage scales of foreign countries, competitive in price in the U. S. market with domestic products manufactured by workers who are paid at the much higher U. S. wage rates. No American manufacturer fears any competition when he can be competitive in price, quality for quality.

It is significant to note that the duties to be imposed on quantities of flatware received in the U. S. in excess of quota are the highest permitted under the 1958 amendment to the Trade Agreements Act; that is, 50% above 1934 duty rates. Present and new rates of duties are as follows:

	Present Rates Which Apply to 5,750,000 Dozen Quota	New Rates Which Will Apply to Any Excess of Quota
Spoons Forks and Knives	17%	60%
Blades Less Than 4" (Chrome)	1¢ Each and 12½%	3¢ Each and 67½%
Blades Less Than 4" (Nickel)	1¢ Each and 17½%	3¢ Each and 67½%
Blades Over 4"	4¢ Each and 17½%	12¢ Each and 67½%

Time will tell whether or not the President's action on flatware will accomplish its purpose. If it succeeds, as is hoped, and the domestic flatware industry regains its rightful position in the U. S. market and is able to again operate profitably with full employment for its workers, then the method used in its behalf could well become the pattern for action to help other American industries injured by foreign competition.

In a step of outstanding significance, Assistant Secretary of Commerce, Henry Kearns, in a speech in Tokyo on November 4, officially warned Japan and other trading nations that the United States will not stand idly by and watch American industries destroyed by foreign competition. In this speech the Assistant Secretary sounded a clear warning to the Japanese and all other countries exporting to the United States when he said, "We do not intend to see an American industry destroyed by foreign competition, and we have adequate safeguards in our trade laws which will be used to make certain that this does not happen. *It is our national policy to share our markets with producers abroad, not to give our markets away.*"

The emphasis added to Mr. Kearns' remarks is my own. I venture the opinion that every American manufacturer has always been willing to share his U. S. market with foreign producers in the best interests of truly reciprocal trade. Now, to hear a high Government official state it as national policy while making very clear for all the world to hear that U. S. markets are not to be given away to foreign nations, is encouragement, indeed, to many Connecticut manufacturers.

Still other signs point to a changing approach to foreign trade policies by this Administration. Secretary of the Treasury, Robert Anderson, bluntly told foreign nations that a substantial proportion of monies given or loaned in foreign aid must be spent in the U. S. While Mr. Anderson's remarks had as their impetus the necessity to arrest the flow of gold from the U. S. Treasury, they also served notice that no longer would the Administration provide jobs for workers in foreign lands at the expense of American taxpayers, many of whom had lost their jobs by previous administration of foreign aid monies.

At the same time, Under Secretary of State, Douglas Dillon, told the member nations of GATT at their November meeting in Tokyo that bars erected by foreign nations which have hindered, and in many cases prevented, the export of American goods to these countries, must be removed.

Added together, these actions appear to indicate that President Eisenhower's Administration is engaged in a planned and determined effort to bring proper balance into trade between the U. S. and foreign nations. It appears to be a policy of moderation that permits foreign countries to share the American market—the greatest market in the world—while still protecting American industries, and at the same time, insisting that American producers be given the same opportunity to share foreign markets.

Continued efforts in this direction, certainly deserve the support of all Connecticut industry.

Mr. Munson, author of this month's guest editorial, has been associated with the International Silver Co. since 1922, two years after his graduation from Yale University, having served as vice president since 1935 and as president since 1955. He has served as director of the Association since March 1959. He also serves either as a director, officer, or trustee of a half dozen other organizations which cannot be listed for lack of space.

Thermocouple—Key to Technical

This area is dust, temperature and humidity controlled to meet the exacting requirements of thermocouple manufacture.

Thermocouple harness assembly room. Grouping wire leads of individual thermocouples into one harness provides a single compact unit.

■ HEAT and cold are perennial topics in our lives. Most of us think of temperature conditions as related to the weather. Yet, few consider that ten degrees Fahrenheit—98.6 degrees F. to 108 degrees F—can mean the difference between life and death. The human body cannot withstand a fever higher than 108 degrees F for an extended time.

Man habitates the earth in a temperature environment of minus 25 degrees F to plus 125 degrees F. Under ordinary conditions, life is impossible below or above these gradations. Obviously, temperature plays a vital role in our work, play dress, living conditions and state of health.

Search for Secrets of Control

Today, we are probing new regions—the arctic, the ocean depths and space; we are utilizing novel materials and vehicles undreamt of only two decades ago. Temperature conditions in these uncharted areas is one of our worst enemies. If we can accurately measure, control and tame temperature, life can be maintained.

Up to seven years ago, temperature measurement (technically called thermometry) was more of an art than a science. The familiar mercury thermometer, a standard household and medical tool to measure body temperature, has served us well since its acceptance in the latter part of the 19th century. But at best, it is a crude, rudimentary gauge.

"If we could determine exact temperatures in various human organs in normal and diseased states, doctors could obtain evidence showing how temperature affects the human body. Certain temperature rises would act as danger signals. Diagnosis could be made quickly and effective treatment started," observes M. Bernard Marshall, vice-president and general manager of Harco Laboratories, New Haven, Connecticut.

Mr. Marshall, an affable, muscular, big-boned man, who looks more like a football player than a scientist, speaks excitedly about the applications of thermometry as a boon to mankind. His prognostications are more than mere conjecture. He accurately foresaw the potentialities of developing the thermocouple for sensing temperatures in the rapidly and radically changing fields of aviation, industry and some specialized professions.

"It was apparent that we had to establish means of testing temperatures in places where existing thermometers were inadequate. For example, known devices were unable to reach inside a jet or rocket engine or a nuclear core reactor; they could not withstand crucial conditions of extreme heat, stress, physical and chemical changes," Mr Marshall remarks offhandedly.

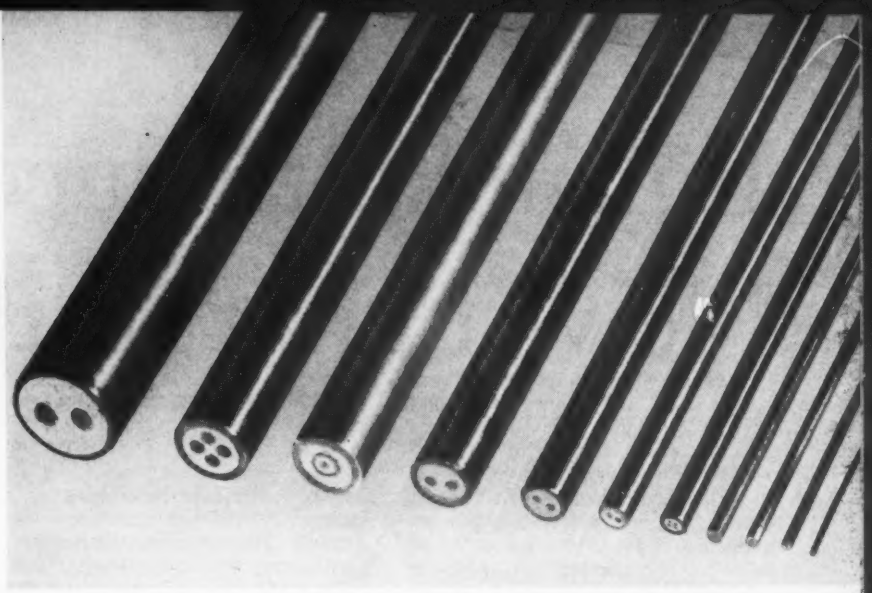
Harco Enters Thermocouple Field

In 1952, he joined Harco Laboratories. At that time, the company was basically involved in the treatment of asbestos for special insulation applications. He established a new division devoted specifically to designing and making quality, highly reliable thermocouples. Although thermocouples had been used for a decade in industry, limited knowledge existed regarding their ability in the pioneer fields of rocketry, missilry and atomic energy.

The department was initially comprised of a few imaginative and resourceful men with considerable experience. But now they had to cope with previously non-existing requirements and conditions. Harco Laboratories was unique in their capability to tackle special needs and process thermocouples to the hardware stage in the shortest possible time.

The thermocouple is the simplest of electrical generators. Yet, it is a veritable Alladin's Lamp containing more than one benign genie. It consists of two pieces of dissimilar materials joined at both ends and producing an electrical current. One junction is made directly at the point of measurement. The other connection is achieved indirectly at an indicator panel or face.

Revolution



Variety and sizes of metal sheathed thermocouples meet many specific temperature sensing needs. Pieces of dissimilar materials are embedded in insulation material near center of metal-covered tubes. A testing point will be attached to the wires at one end and another connection made indirectly at other end through indicator panel.

Probing The Thermocouple Capabilities

Why two differing materials should produce an electrical force is still unknown. The phenomenon was discovered in 1821 by Thomas Johann Seebeck. Appropriately, it is called the Seebeck effect.

The actual electrical energy output bears a definite relation to the difference in temperatures existing between the two junctions. Heating one end or juncture causes a current to flow. This phenomenon is known as thermoelectricity. Hence, the thermocouple becomes useful for measuring, recording and controlling temperature.

Unfortunately, for over a century, the thermocouple reaction was considered a laboratory curiosity with no practical use. But what was actually happening was the direct transformation of heat into an electrical force without the complex and expensive equipment required by electrical power plants.

Perhaps, because of its very simplicity we could not appreciate its true value. Still, there were a few who picked up the lamp and rubbed it lightly. In 1834, a French watchmaker, Jean Charles Athanese Peltier, found that by passing a current through the thermocouple junction varying temperatures could be attained.

Four years later, Emil Lenz, clearly demonstrated the amazing results of this reaction. A drop of water was placed on one junction; when the current flowed in one direction, the water turned to ice; when it moved the opposite way, the ice melted.

Discovery in the 1930's

It wasn't until the 1930's, however, that experimentation in applying these effects met with some success. Formerly, the materials used in thermoelectricity were metals which act as "full" conductors. But when an oxidized copper plate was utilized, it was discovered that the electrical current traveled easily in one direction but met a high resistance in the alternate route. Hence, it became a semiconductor.

These qualities in copper oxides led physicists to search the new realm of semiconductors capable of producing thermoelectric power hundreds of times higher than metals. To date, the most efficient materials developed transform heat into electricity with about 10% efficiency. A steam electric plant produces power at approximately 30% and a gasoline engine up to 40% efficiency.

"At first, this appears unfavorable," reasons Mr. Marshall. "But the thermocouple needs only a heater and a coolant. There are no cumbersome, costly, moving parts. Where low voltage is needed such as in the radio, telephone and telegraph, the thermoelectric cell is quite practical."

Russia is reputed to be manufacturing tens of thousands of thermoelectric lamps. The heat of the lamp produces sufficient electricity to operate a radio. Imagine yourself in a lonely, remote area without benefit of electricity. By simply lighting the lamp you acquire an ear to civilization.

But the Alladin's Lamp of thermoelectricity has another genie; it lies in that drop of water placed on a junction by Emil Lenz. This principle, where the electric current cools one connection and heats the opposite juncture, is the basis for thermoelectric refrigeration and heating.

"Some laboratories have developed thermoelectric panels. A flick of the switch lets you choose which side you want heated or cooled. With a little imagination, one can visualize the tremendous applications of this device. Thanks to the thermocouple we are on the verge of a technical revolution in heating, air conditioning, refrigeration and power engineering," Mr. Marshall states.

M. Bernard Marshall, vice president and general manager of Harco Laboratories, was one of the few men to foresee the potentialities of studying and developing the thermocouple.

Harco's Contribution to Thermocouple Development

Harco Laboratories made a significant contribution to these amazing discoveries. It is said to be the first company in the country established for the sole purpose of manufacturing advance thermocouple units. Since its inception in 1952, Harco has fabricated thermocouples for the experimental and production models of naval nuclear reactors, jet engines, rocket engines, the plastic machinery industry, food processing plants and dozens of other types of installations.

They have supplied units to designers and makers of highly advanced aircraft propulsion engines using both solid and liquid fuels. The electronics industry uses Harco thermocouples. Private research institutions, universities and government laboratories

(Continued on page 29)

Bullard Introduces New Turret Lathes

■ THE Bullard Company, Bridgeport, Connecticut, has developed and is introducing in January a new series of fully power-controlled vertical turret lathes—said to be the first in the world —in nine sizes with table diameters ranging from 26 inches up to 124 inches.

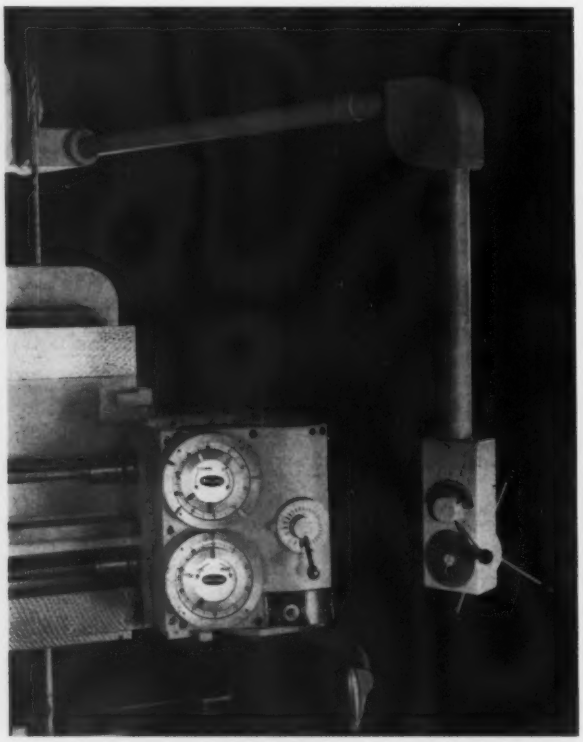
The new Bullard "Dynatrol" vertical turret lathes, previewed by members of the technical press at the plant November 5, 1959, incorporate revolutionary advances in machine tool design that make for greater production efficiency by keeping the tool in the cut more of the time, cutting the time between cuts, and increasing the operating speed and production rate of the new lathes.

The first of these is a radical new single-lever control for positioning each of the heads and for engaging or disengaging the tools from the work. The new system shortens this non-productive portion of the operating cycle, makes these functions easier for the operator, and results in far more time being spent actually cutting.

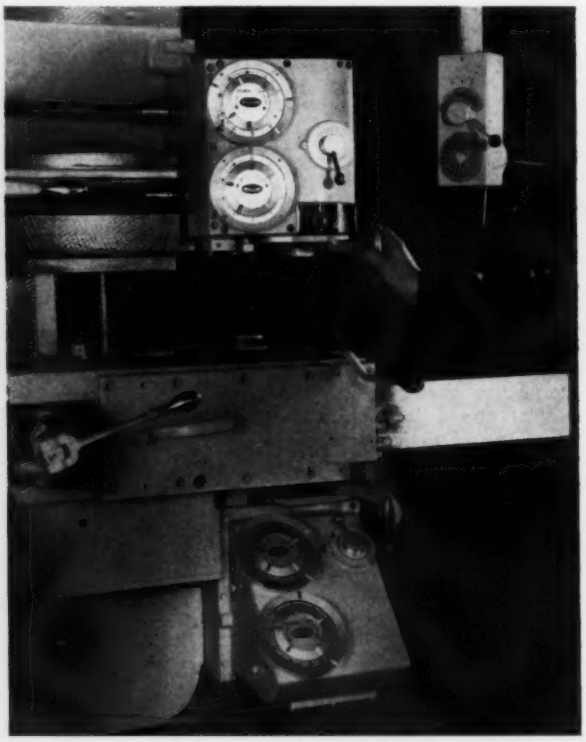
The second is a provision for feed rates directly coupled to table R.P.M. which are infinitely variable throughout the full range of the machine—rather than the conventional step-by-step variation. This permits the new "Dynatrol" lathes to be run at all times at the optimum cutting rate for the kind of material and tool in use. Feed rate can be varied while cutting, too, without stopping the table, allowing changes to be made to match changes in stock removal conditions or to adjust for tool-wear.

Rapid Positioning of Heads and Tools

The single-lever control system for positioning each of the heads and for engaging or disengaging the tools is a radical departure from the conventional handwheel and toggle-lever systems previously used. It is designed to make the operator truly the master of his machine, placing in his hands in the most simplified form all of the controls for starting and stopping the table, traversing the heads, and engaging the cutting tools. With the new single-lever control system and its new visual indicators, the operator can move the heads to the proper position faster and with more confidence, he can put the cutting tool closer to the work before engaging the feed, and can set the table in motion smoothly—all from one



A new concept in measuring utilizes large easy to read clock-type dials with dual pointers. The graduations and numerals remain stationary while the pointers rotate.



A single lever on the feed works controls all directional motions of the head, traverse and feed engagement. Table speed change, start and stop are controlled from the pendant.

floor-position and with greater ease and flexibility. The result is that less time is spent getting the lathe ready to cut and more time is spent actually cutting.

In the smaller sizes, the control consists of a horizontally swinging arm with a conveniently shaped pistol grip. Turning the grip changes the direction of movement of the head. Pointing the grip to the left will traverse the head to the left; pointing it to the right will traverse the head to the right; turning it upward, or downward, or at a 45° angle, will traverse the head in the indicated direction.

With the grip pointed in the direction of traverse desired, the arm is then swung to the left to actuate the head-traverse. The head can be traversed at an infinitely variable rate from 0 to 9 feet per minute. The traverse rate is varied according to the distance the lever is moved from the neutral position.

When the head has been brought close to the work by the traverse motion, the feed is then engaged by swinging the arm all the way to the right.

For the larger sized machines, a remote control system is provided, which is based on the same operating principle. A control pendant is provided from which the operator can regulate table movement, start, stop or inching and select table speed. The speed selected is visually indicated by a light at the appropriate position around a circular dial mounted at the right-hand end of the cross rail.

In addition, the heads are operated by a compact, lightweight, portable control box that fits into the operator's palm. On this control box is a push-button for starting or stopping the table, four more buttons arranged diamond-fashion which permit the operator to select the direction of traverse of that head; and a single lever which traverses the head when moved to the left or engages the feed for the head when moved to the right.

By moving this single lever to the left, the operator can traverse the head at any one of four traverse rates: 9 feet per minute, 4 feet per minute, 1 inch per minute, and inching rate. The rate of traverse is varied automatically according to the distance the lever is moved from the neutral position.

The direction of traverse is regulated by pressing the appropriate directional button, corresponding to up, down. right, or left. Pressing two adjoining buttons simultaneously produces head movement at 45 degrees.

Unique Measuring System

A new concept in measuring utilizes large, easy to read, clock-type dials with dual pointers. The graduations and numerals remain stationary while the pointers rotate, one registering tenths of an inch and the other thousandths of an inch for minute head positioning. This accurate measuring system makes possible exact head positioning in either feed or traverse without the need of hand wheels.

More Flexible Choice of Feed Rates

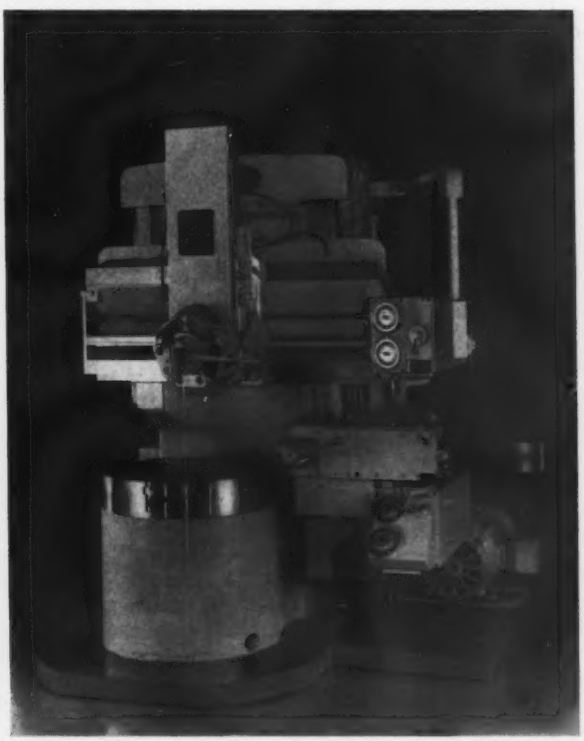
In all sizes of the new "Dynatrol" V.T.L., Bullard offers for the first time a machine with infinitely variable feed rates—rather than the conventional step-by-step feeds. The rate of feed can be changed at any time during a cut—without stopping the table—merely by rotating the feed-rate selector dial. This allows the feed-rate to be matched exactly to the nature of the work and the type of tool—and to be adjusted while cutting to accommodate a change in stock-removal requirements or to allow for tool-wear.

More Versatile

The Bullard "Dynatrol" V.T.L. has been designed for complete versatility, from the simplest, yet highly productive, manual operation ever devised to complete automation. This may be accomplished through the use of Bullard Man-Au-Trol for complete automatic operation or through point-to-point or continuous path numerical control systems.

Numerous accessories can also be applied to the Bullard "Dynatrol" V.T.L. to make it even more versatile.

Simple controls, conveniently located for the operator, allow him to take full advantage of modern cutting tools at maximum feeds to produce more work, better and faster.



This is the completely new Bullard Dynatrol Vertical Turret Lathe, compact in design and rigid in construction. In designing the Dynatrol V.T.L., productivity was the foremost factor.

Association Officers and New Directors

A. W. CAVEDON

■ HARVEY L. SPAUNBURG, chairman of the board, Veeder-Root, Inc., Hartford, was re-elected president of the Association at the annual meeting of the Board of Directors held at the Hartford Club, Hartford, December 10, 1959.

Carlyle F. Barnes, president, Associated Spring Corporation, Bristol, was re-elected first vice president, and Alfred W. Cavedon, president, Aldon Spinning Mills Corporation, Talcottville, was re-elected second vice president. John Coolidge, chairman of the board, Connecticut Manifold Forms Co., West Hartford, was re-elected treasurer, a post he has held for fifteen years.

Mr. Spaunburg joined the Root Company of Bristol in 1919 as a foreman, later becoming superintendent of the Bristol plant. Following the merger of the Root Company with the Veeder Co. of Hartford, to form Veeder-Root, Inc., he became chief engineer of the new corporation. Shortly afterwards he became factory manager and secretary. In 1942 he was elected a vice president and in 1944 a director. In 1950 he was elected executive vice president and in 1952 was elevated to the presidency. He was named chairman of the board in October, 1958.

Mr. Spaunburg is a director of the Connecticut Bank and Trust Co., Hillyer College, Veeder-Root, Ltd., Veeder-Root of Canada, and Holo-Krome Screw Corporation, a division of Veeder-Root.

He is a member of the Hartford Club, the Hartford Golf Club, the Newcomen Society and the American Society of Mechanical Engineers. He is also a 32nd Degree Mason and Shriner.

HARVEY E. SPAUNBURG

CARLYLE F. BARNES

CARLYLE F. BARNES has served as vice president since September 1957. A graduate of Wesleyan University, Mr. Barnes served as general manager of the Bristol Divisions of the Associated Spring Corporation from 1951 until his election to the presidency in 1953.

He is a director of the NAM, Bristol Bank & Trust Co., Bristol Clock Museum and the Manufacturers Association of Hartford County. He also serves on the board of the Bristol Hospital, Inc., and is a member of the hospital's executive committee.

He is past president of the Junior Chamber of Bristol, and a member of the Manufacturers Committee, Chamber of Commerce of the United States; the National Industrial Conference Board, the American Management Association, and the American Iron and Steel Institute.

JOHN COOLIDGE

ALFRED W. CAVEDON is a native of Rhode Island where he received his early education. Later he attended Georgetown University and the Philadelphia Textile Institute. He began his business career with the Crown Piece Dye Works of Woonsocket, Rhode Island, of which he later became president. Two years later he was made president and secretary of the Falls Yarn Mills of Woonsocket.

In 1943 he established the Aldon Spinning Mills Corporation of Talcottville, manufacturers of fine woolen and worsted specialty yarns.

Mr. Cavedon is a member of the Advisory Board of the Rockville Branch of the Connecticut Bank and Trust Company, a trustee of the People's Savings Bank of Rockville and a member of the executive committee of the National Association of Woolen Manufacturers.

Two new directors elected at the Association's annual meeting, September 15, 1959, and three others who have been completing terms of other directors and who were re-elected, began serving their four-year terms on January 1, 1960. To acquaint members with their backgrounds C. I. presents their names and a brief biographical sketch of each director, both elected and re-elected.

The new directors are as follows: For director to represent Litchfield County, R. T. Dunlap, executive vice president, The Torrington Company, Torrington, replacing S. W. Farnsworth, chairman of the board, The Torrington Mfg. Co., Torrington; for director, also representing Litchfield County, W. H. Fieweger, manager, Kimberly-Clark Corporation, New Milford, replacing Harry E. Norton, vice president, Mason Silk Co., Winsted.

The other three nominees elected were chosen by the Board of Directors to fill vacancies during 1958 and 1959, and hence succeed themselves. They are: For Hartford County, Paul K. Rogers, Jr., president, The Skinner Chuck Co., New Britain; for Fairfield County, Lyman C. Thunfors, vice president, Jenkins Bros., Bridgeport, and for Director-at-Large, C. D. Munson, president, The International Silver Company, Meriden.

CRAIG D. MUNSON

LYMAN C. THUNFORS

R. T. DUNLAP

W. H. FIEWEGER

PAUL K. ROGERS, JR.

R. T. DUNLAP, executive vice president, The Torrington Company, was born in Portland, Oregon. After receiving a degree in mechanical engineering from Oregon State College in 1932 he gained experience in various engineering and sales positions before joining the Torrington Company in 1940 as bearings sales engineer. In 1941 he was transferred to the Bantam Bearings Division of the company in South Bend, Indiana, where he served as assistant chief engineer, assistant general manager, vice president and general manager. In 1956 he was elected a director and two years later returned to Torrington. He was made executive vice president in 1958.

Mr. Dunlap is a member of a number of industrial organizations and a director of the Hartford-Springfield Post, American Ordnance Association. He resides at 1 Adelaide Street, Torrington.

W. H. FIEWEGER, manager, Kimberly-Clark Corporation, New Milford, a native of Wisconsin, was graduated from Notre Dame University with a Bachelor of Philosophy Degree in 1936. Immediately after graduation he was employed as a machine hand at the Kimberly-Clark Corporation, Neenah, Wisconsin. After a number of advancements he became general manager of Munising Paper Co., a Kimberly-Clark subsidiary, in 1953. In 1957 he was appointed manager of Kimberly-Clark's first Connecticut plant in New Milford.

Since coming to Connecticut, Mr. Fieweger has become a member of the Advisory Committee, Brookfield Office, Connecticut National Bank; director, New Milford Chamber of Commerce; director, Danbury Heart Association; and a trustee of New Milford Hospital. He resides at Mountain View Terrace, New Milford.

PAUL K. ROGERS, president of Skinner Chuck Co., New Britain, who was appointed at the March 18, 1959 meeting of the Board of Directors to complete the term of the late Ralph S. Howe, ending December 31, 1959, and who was re-elected at the annual meeting to represent Hartford County, is a graduate of Culver Military Academy and Dartmouth College. After receiving his AB Degree from Dartmouth in 1935 he was employed by the Jones and Lamson Machine Company, Springfield, Vermont. Later, in 1936, he accepted a position with the South Bend Lathe Works, South Bend, Indiana, where he remained until 1937 when he became associated with the Skinner Chuck Co., New Britain.

In 1938 he was elected treasurer and director of the company, and in 1943, vice president. He was elected to his present post as president in 1954.

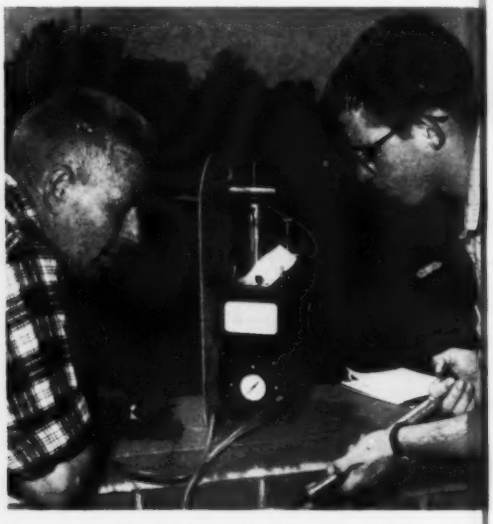
Mr. Rogers is a director of the Burritt Mutual Savings Bank, New Britain Trust Co., Shuttle Meadow Country

(Continued on page 36)

Summer Science Center At Loomis

By J. F. DAVIS
Loomis School, Windsor, Conn.

Richard G. Sagebeer, United Aircraft Corporation, wo with Richard W. Pollay on model smoke tunnel.



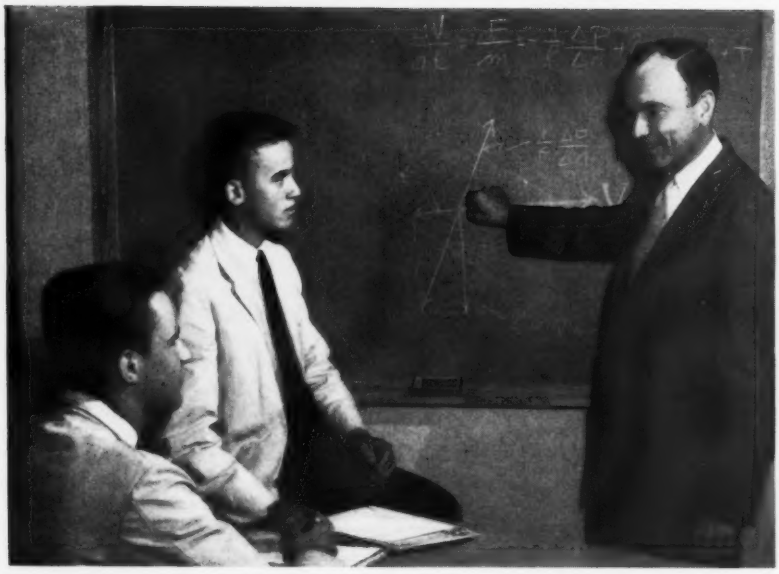
Dr. Vincent J. Schaefer and Thomas R. Defler, a stud conduct an outdoor experiment.

Student Edson L. Blackman works on an experiment at the Aetna Life laboratories.

■ IN 1957 the first Sputnik flashed a red danger signal across the skies and shocked America out of its complacent attitude toward Soviet scientific developments. Among the repercussions was an outraged cry from the public that our schools had fallen down on the job of training scientists. We didn't have enough, and the need was critical.

Actually a start had been made before the advent of Sputnik I to rectify the situation. At the Loomis School in Windsor, Conn., a unique experiment in education had been launched, an experiment in which Connecticut industries played a vital role.

This was the first secondary school physical science center. The brainchild of a group of Loomis teachers and trustees and of Dr. John V. N. Dorr, head of the Dorr Foundation, the center was inaugurated with the chief goal



Robert S. Wilson and Robert J. Zimmerman go over some physical concepts in meteorology with Dr. Thomas F. Malone, director of research at Travelers Insurance Company.

of seeking out the best scientific minds among secondary school boys and steering them into the branch of science which best suited their needs and abilities.

Three Part Program

To achieve this end, a three part program was developed. This consisted of a basic course in the methods, nature and philosophy of science, actual research work under the direction of a mature research scientist or engineer and evening lectures by prominent figures in scientific fields.

Twenty-four boys were selected from Connecticut public and private schools for the first center in the summer of 1957. Last summer their number had grown to 35 students, 32 of them from public high schools, selected from 196 applicants.

To conduct the basic course, the center was fortunate in procuring the services of Dr. F. Woodbridge Constant, chairman of the physics department of Trinity College, who later became academic director of the summer program.

Industry and Business Cooperation

The unique facet of the experiment was the tie-in with industry and business. Corporations were hesitant at first about taking part. And they had good reason. They faced questions about insurance, security, hazards to the students and disruption of their plant routines. They also had to sacrifice the time and effort of engineers and scientists to supervise the work of the students. It is a tribute to their vision and devotion to American education that eleven of them agreed to participate in the original program. Nine more joined in the next year's program.

The original companies participating in the program were: Dunham-Bush, Hartford Electric Light Company, International Business Machines, Kaman Aircraft Corporation, Nathan Margolis, Royal-McBee Corporation, Southern New England Telephone Company, Travelers Insurance Company, Underwood Corporation, United Aircraft Corporation and WNBC-TV.

Taking part in subsequent programs were Aetna Casualty and Surety Company, Combustion Engineering, Emhart, J. M. Ney, Gray Research Corporation, Hamilton Standard, Division of United Aircraft Corp., Kahn and Co., Maxim Silencer and Pratt & Whitney Inc.

Also cooperating have been these non-industrial organizations: Connecticut Agricultural Experiment Station, U. S. Soil Conservation Service, Hartford Hospital and Trinity College.

Start So Good Others Copy

The first summer was successful beyond the expectations of the center's leaders. Attesting to this is the fact that more than a dozen similar programs have been set up over the nation since then, using the Loomis model as a prototype with industrial cooperation the main feature.

And the first industries which took part responded the next summer in surprising and gratifying fashion.

The feeling of management toward the experiment is shown by the following random excerpts from reports sent to the school after the first summer.

"We were most favorably impressed with the students and enjoyed having them with us. Their behavior and cooperation and attitude were excellent . . . In our particular instance, we feel that we had square pegs in square holes."

"Congratulations for what appears to have been a very successful and certainly worthwhile endeavor! If the two boys we had from the Center were only average representatives, then you certainly share our feelings of having enjoyed a very inspiring association with true gentlemen."

And lastly, this fine commendation: "The inquisitiveness of the pair (the two students) was a joy to behold. The challenge was indeed enjoyable. We who have 'worked for a living' for a while have certainly lost a lot of the basic inquisitiveness which was displayed by them. I doubt, seriously, that the boys received anywhere near the inspiration that they unwittingly gave."

Third Year Expansion

Something new was added to the program in its third summer. Trinity College became a co-sponsor with Loomis while the Dorr Foundation initiated a similar project at the University of Bridgeport. And another project was started, an atmospheric sciences program sponsored jointly by Loomis and the American Meteorological Society. Thirty students were admitted to this project which was directed by Dr. Vincent J. Schaefer, a pioneer in rainmaking studies. Both programs were financed by the National Science Foundation.

Also helping with the financing of the centers through the three years were gifts from such industries as Combustion Engineering, B. T. Babbitt and Pitney-Bowes.

Physical Facilities Key to Growth

What of the future? The only limit to the growth of the science centers is the physical facilities at the Loomis School. The school had demonstrated its competence of personnel and leadership in education. It has also proved the value of the independent school in acting as a catalyst in bringing together for worthwhile results the energies and brains of business, industry and education.

What the school needs now to continue its work is a new science building, which has already been projected, to provide more adequate laboratory and classroom space for its budding scientists as well as the teachers, engineers and scientists who have helped so much in making the programs a success. More than half of the necessary funds have already been contributed for construction and it is hoped that within a year or two it will be a reality.

NORRIS W. FORD

Norris W. Ford Retires

♦ NORRIS W. FORD, executive vice president of the Manufacturers Association since February, 1945, retired on January 1, three months after his 65th birthday. Mr. Ford, who joined the association's staff as traffic manager in October, 1929, was appointed manager in 1944, a post he held, in addition to his traffic work, until his appointment as executive vice president.

Although his future plans are still indefinite, he expects to spend the winter looking over possible winter homesites in Florida, returning to his favorite summer home on Sagamore Terrace, Westbrook, Connecticut, next spring.

Born and educated in Whitman, Massachusetts, he served in France with the American Expeditionary Forces for eighteen months during World War I. Following the war he was employed as freight auditor with the Interstate Freight Bureau in Boston.

In 1920 he joined Winchester Repeating Arms Co. of New Haven as assistant traffic manager. While at Winchester he became a traffic instructor during a period when the Association's traffic committee was actively promoting such courses throughout the state to satisfy the great dearth of traffic managers then available to the industries of the state. His outstanding record in this field was chiefly responsible for the invitation he received to become traffic manager of the Association in 1929.

While serving as traffic manager, Mr. Ford became an Interstate Commerce Commission Practitioner and won national prominence for his dynamic presentation of the merits of his proposals for changes in freight rates, classifications or other practices in the transportation field.

He was appointed in 1941 as a member of the New England Governors Freight Rate Committee, which was created by the New England Governors' Conference to advise the governors concerning a board investigation of freight rates, and in 1943 was made a member of the New England Advisory Committee, Office of Defense Transportation.

A long time member of the New England Traffic League, he served that organization both as president and member of the executive committee in the early 1940's. In 1945 he was elected director and member of the executive committee of the National Industrial Traffic League. From 1929 to 1945 he represented Connecticut manufacturers in numerous transportation proceedings before state and federal legislative committees and agencies.

In a continuing effort to hold freight rates and charges to Connecticut manufacturers in line with other sections of the country, Mr. Ford frequently initiated action on behalf of the Association which led to either lower transportation charges or a "hold-the-line" decision. In victory or defeat he was always considered a formidable adversary by the opposition, both in debate and in the convincing presentation of facts at hearings, either verbally or by written briefs. He originated and carried to a successful conclusion the movement to obtain modification of classification rule 10.

In 1950 Mr. Ford was elected chairman of the State Association Division of the National Industrial Council, an organization composed of the chief executive officers of the thirty-eight state manufacturers associations. He served in this capacity for two years.

After the disastrous floods of 1955, Governor Ribicoff appointed him as a member of the Flood Disaster Recovery Committee, headed by Sherman R. Knapp, president of the Connecticut Light and Power Company. Again, as in other group activity, he made a worthy contribution to the committee's deliberations and final report which was considered among the best ever presented to a governor of Connecticut.

Out of respect for his demonstrated ability to initiate programs and obtain the necessary cooperation to secure effective action, Mr. Ford was elected president of the Council of State Manufacturers Associations in 1954.

A concise and effective speaker, Mr. Ford was in far greater demand as a speaker before industrial, business, traffic and civic groups than his busy schedule would permit him to accept. He, therefore, confined his talks chiefly to larger groups of traffic and business

(Continued on page 36)

Making Employee Surveys Work

By MARTIN WRIGHT

■ EXPERTING on employee thinking can be an expensive luxury. Yet a spot check of business organizations shows that many do just this. Some employers know what their employees think and want. The word is not used, but it boils down to knowing by intuition.

Now, there are times when intuition can't be beat. But these cases are exceptions. Intuitive decision-makers play the law of averages, and unfortunately for business, they are right just enough so that their often expensive wrong decisions are averaged out. Responsible business leadership today knows that the best way to find out what employees think about a situation or conditions, is to ask them, and to have this done professionally.

These organizations, with their knowledge of what questions to ask and how to ask them, and skill in phrasing and cross-checking the queries to detect those who are trying to please with their replies, perform a real service. Their scientific approach to human problems, and results obtained point up areas of weakness. Very often the revelations show attitudes and conditions quite surprising to even knowledgeable management.

Frequently, after a survey has been completed, tabulated and studied there comes the big question—what is to be done about all this? Too often little or no action is taken, or if it is taken, it is not thoroughly explained to the employees. This results from a rationalization process, and can be prevented effectively by the injection of objective counsel.

When results of an attitude survey among employees of a company are analyzed, and remedial action planned, reviewed and carried out—the effect is invariably reflected in improved operations.

The Case of Better Quality Recommendation

In one company, a manufacturer of large equipment, the management was surprised to learn that its employees felt quality was important, and that they felt the quality of the company's product was not all it should be. This revealing fact resulted in an immediate review of the entire quality program. Corrective measures were taken when the investigation showed where changes in inspection could improve quality. The employees were kept informed of the entire procedure.

First, a report of the results of the survey to employees included a frank discussion of the quality question, along with frankness in explaining facts dealing with the relationships of the employees with their bosses and with the company generally. The report told what the company planned to do about quality and the other problems employees had pointed out in their answers. In cases where nothing could be done about a certain situation, the employees were told why. Then, as plans progressed, employees were kept constantly informed by letters, postings on bulletin boards and through meetings with their supervisors. Consequently, they all knew what was being done, when it was being done, how it was being done, and why it was being done. Because these actions resulted from opinions expressed by employees, they had a strong interest in the progress. The fact that they were included all the way in the development and progress of the program went far toward enlisting their complete cooperation. The result was that quality was materially improved in an area where the production people had been striving for improved results with conventional methods for years—but had not been able previously to enlist the needed support of the people who were doing the actual work.

The Case for Better Supervision

In another case involving a manufacturer of small metal parts, it was discovered through an attitude survey that employees felt their supervisors were not strict enough. This result came as a big surprise. At the same time, a survey among the supervisory group revealed that they did not identify themselves strongly enough with management. While they generally understood they were part of management, they felt they were not in the know. They said they were not kept informed, and this was reflected in a poor working attitude on their part. This, in turn, resulted in the feelings of their employees that the foremen were not strict enough, and that "apple polishers" got along best in the company.

After the results were studied, a course of action was planned. This was not a situation which could be solved simply or quickly—so a long range program was evolved. Again, the employees and their supervisors were kept informed. Since the basic problem, in this instance, seemed to lie with the supervisors, it was decided that the approach would be to intensify the supervisory training program, and to expand its scope.

One of the primary concepts to get across to this group was that they were definitely a part of management, and that they could help themselves by a more mature and understanding outlook in their relationships with their employees. In short, they should be less "one of the boys," and more leaders. They were shown that this accomplished several things.

First, they were put at the top of the list to receive company information. Second, it made their work easier. Third, it gave them greater job satisfaction because of improved results. And, fourth, since they were on an incentive arrangement, it put more money in their pockets at the end of the week—and it did this by increasing their employees' earnings at the same time. It raised their stock with employees, and made supervisors the authoritative, responsible sources of information about the company and what it was doing.

It was an unbeatable situation. But the situation had been there all the time, unrecognized and dormant until the employees pointed it out through their answers in a survey of their opinions.

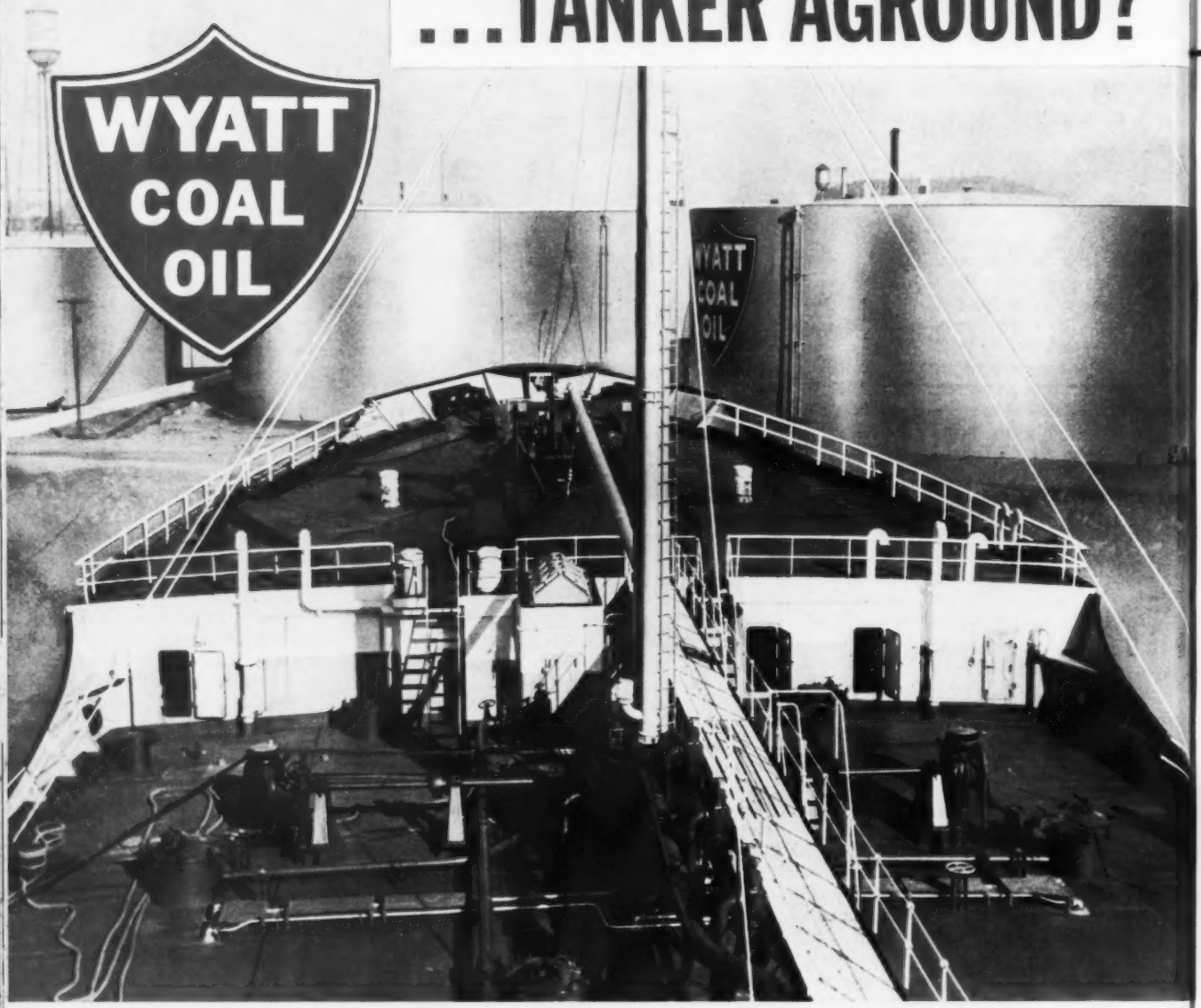
Survey Facts—A Requisite to Savings Program

The survey is needed to ferret out the facts, and arrange them in logical order. It is also needed to place them in their proper perspective as far as similar experiences in other organizations are concerned. Then, after this has been done, a complete analysis must be made, and the facts translated into a course of action. This procedure means a company should realize a complete and advantageous return on its survey investment.

When the corrective action is taken, and full value received from a survey, it means substantial savings to the company—savings which can be rein-

(Continued on page 40)

...TANKER AGROUND?



No, — just your oil coming to you in the most direct and efficient manner...
via supertanker at Wyatt's deep-water terminal.

Wyatt serves you better in all market conditions —
48,000,000 gallon storage... large modern truck fleet...
the most efficient plant facilities... 2 deep-water tanker slips.

BUNKER "C" FUEL OIL • LIGHT FUEL OILS • DIESEL OIL • BITUMINOUS COAL

FOR 25 YEARS, UNIFORM QUALITY FROM ONE SOURCE

WYATT, INC.

NEW HAVEN, CONN. • PHONE: STATE 7-2175

TERMINALS

EAST & WATER STREETS, NEW HAVEN • BENTON STREET, HAMDEN

MAIN OFFICES — 157 CHURCH STREET

News Forum

This department includes a digest of news and comment about Connecticut industry of interest to management and others desiring to follow industrial news and trends.

♦ AT THE 75TH CONFERENCE of the American Chemical Society's Division of Rubber Chemistry, held in Washington in November, Dr. Fernley H. Banbury was awarded the 1959 Charles Goodyear Medal, the highest honor in Rubber Chemistry. Dr. Banbury, who was connected with Farrel-Birmingham Company, Inc., Ansonia, for a great many years, was selected as 1959 recipient of the annual award as inventor of the Banbury mixer, a machine used by all the major rubber companies, and by manufacturers of plastics products, linoleum, cellulose acetate and asphalt compounds.

The first Banbury mixers were built in 1916 at the Birmingham Iron Foundry, Derby, where Dr. Banbury, as works manager, started the development and handled the introduction of the machine to the rubber industry. In 1927, when this company merged with Farrel Foundry and Machine Company in Ansonia, he was made manager of the Banbury Mixer Department of the newly formed Farrel-Birmingham Company, Inc. He held this position until his retirement from active work in 1943.

♦ AN IMPORTANT new book for Connecticut industry has been published by Bond Press, Inc., Hartford. It is titled Connecticut Taxation of Corporations and was written by Richard L. Denney, CPA, tax manager of the Hartford office of Lybrand, Ross Bros. and Montgomery.

Completely indexed, the volume deals primarily with the state's corporation business tax as it applies to foreign and domestic companies doing business in Connecticut. It is designed to serve as a quick and ready reference for tax practitioners and executives of corporations which are subject to this state's taxes. It will also serve as a guide to firms which are considering the establishment of operations in Connecticut.

The book contains detailed background on virtually every phase of the Connecticut corporation business tax and also includes appendices showing pertinent sections of the General Statutes dealing with corporation taxes and regulations issued by the State Tax Commissioner. Copies may be purchased for $3.00 at Bond Press, Inc., 71 Elm St., Hartford.

♦ AN AIR NOZZLE of radically improved design that combines full power with complete operator protection from flying chips is now available from Halortha Engineering Company, Inc. of Windsor.

The new air nozzle has been engi-

Dr. Fernley H. Banbury, who was awarded the 1959 Charles Goodyear Medal, is shown seated at the Farrel-Birmingham Co., Inc. exhibit at the American Chemical Society's Division of Rubber Chemistry Conference held at the Shoreham Hotel, Washington, D. C.

ANDERSON-NICHOLS & Company

150 CAUSEWAY STREET, BOSTON 14, MASSACHUSETTS

ENGINEERING • CONSTRUCTION • DESIGN

ARCHITECTURAL • MECHANICAL • INDUSTRIAL • PROCESS • MANAGEMENT
MATERIALS HANDLING

A Coordinated Technical Service to Management

ERNEST W. NEWMAN
J. DOANE ANDERSON, JR.

11 Asylum St., Hartford, Connecticut
Telephone CHapel 7-2474

CHASE

the Nation's Headquarters for

ALUMINUM
BRASS
COPPER
STAINLESS STEEL

Warehouse and Mill
CHASE BRASS & COPPER CO.
Waterbury 20, Conn.
Tel. PLaza 6-9444

ENGINEERING CO.

THE HENRY SOUTHER
Engineering & Chemical Service

Water Purification

Industrial Waste Disposal

Research Facilities for Industry

Hartford, Conn.

WHAT CONNECTICUT MAKES
MAKES CONNECTICUT

Manufacturers of
DRY PRESS
(STANDARD ITEMS)

FIRE BRICK
SPECIAL SHAPES
(MUD PRESS)

IN ANY SHAPE
OR QUALITY DESIRED

THE HOWARD COMPANY
250 Boulevard, New Haven, Conn.
SPruce 7-4447

neered and constructed with "air screen" protection built in—an invisible shield of air that surrounds and guides the powerful jet stream yet prevents chips from showering the operator.

The item features a cadium plated nozzle which is said to resist corrosion, outperform and outlast conventional nozzles.

♦ THE AVAILABILITY of a new six-page, fully illustrated circular describing its new Model 17-400 Air Hydraulic Drill Unit has been announced by The Hartford Special Machinery Company, Hartford.

Designed as a "building block" component for assembly into automatic machines custom engineered to meet specific production requirements, the Model 17-400 is described as a new unit that features unusual versatility and adaptability, with quick, positive adjustment of all motions.

♦ ARTHUR PONGRATZ, supervisor of recreation and employee service for Hamilton Standard, division of United Aircraft Corporation, Windsor Locks, has been elected chairman of the Connecticut Industrial Recreation Council.

As chairman of the YMCA-sponsored Council, Mr. Pongratz will head a group of approximately 30 delegates from industrial recreation councils of Connecticut's major cities in promoting industrial recreation throughout the state. He will also coordinate the planning for the Council's annual one-day conference on recreation.

As supervisor of employee recreation, he coordinates all recreation activities sponsored by Hamilton Standard for its employees.

♦ IN A DRAMATIC MOVE to prove industry claims that all-copper plumbing can be installed faster and at less cost than ferrous piping, Chase Brass & Copper Co., Waterbury, sponsored timed comparative installations of two identical rough plumbing systems, one in copper and the other in ferrous pipe, in two identical framed structures. Performed under field conditions in Waterbury, the installations were done simultaneously by workmen of a typical plumbing firm. All work was done under the close supervision of the Waterbury Plumbing Inspector, Wilfred Garrity, and two instructors from local plumbing apprentice training centers.

When the two installations were finished, it was established that the all-copper system was completely installed in seven and one-half hours, or in 26% less time than the ferrous system, which required ten and one-quar-

STEEL
CASTINGS

From one lb. to 2500 lbs. each

Try us for fast delivery when your needs are urgent.

THE
NUTMEG CRUCIBLE STEEL
COMPANY
BRANFORD CONNECTICUT

WAVERLY INN
Cheshire

New England's Landmark for
Exquisite Dining Since 1896
Famous Saratoga Chandeliers

Luncheon Cocktails Dinner

Superb banquet facilities for gatherings
up to 1100 persons

Tel. BR 2-5325

PAPER BOXES
FOLDING • BRIGHTWOOD
and
SET UP
H. J. MILLS, INC.
ESTABLISHED 1887
BRISTOL • CONNECTICUT

ter hours to install. The total cost of the copper system, installed, was $209.09, and the ferrous system $233.-97, a dollar saving of $24.88, or 10.6%.

The comparative installations were witnessed by a group of 15 editors representing plumbing, building, architectural, and metals publications.

According to George Moseley, vice president-sales for Chase Brass & Copper Co., who originated the idea for the comparison, the affair was conducted to answer a question often asked by plumbing contractors, builders, and architects, most of whom are not in a position to answer it by an actual test. This question, which closely ties in with the cost and quality of a building is "What piping material is the least expensive to install?"

♦ THE PROMOTION of Joseph L. Burgess Jr. to purchasing and production control manager of Arrow Tool Company, Inc., Wethersfield, has been announced by John D. Dewhurst, president.

Mr. Burgess has been with Arrow since 1954 and was formerly office manager. He attended Hillyer College, University of Connecticut, and Alabama Polytechnic Institute.

Arrow Tool Company produces tools, precision electro-mechanical and mechanical parts and components for business machines and instrument systems.

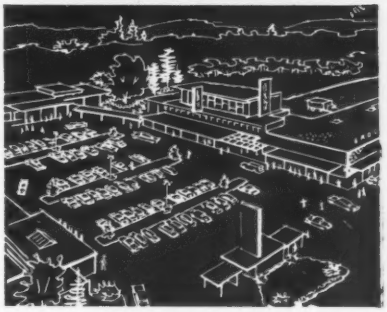
"Man of the Year" award of the Anti-Friction Bearing Distributors Association is presented to Raymond M. Page, manager of Distributor Sales for Fafnir Bearing Company, New Britain. Left to right are: Frank B. Timble, president of AFBDA; Olin S. Livingston, AFBDA board chairman; E. Joseph Moore, former president of the association, and Mr. Page. The award cited Mr. Page for his leadership in promoting better bearing distribution policies and for his initiative in devising major changes in the pricing pattern for distributors.

♦ BRANSON Ultrasonic Corporation, Stamford, manufacturer of ultrasonic cleaning and gaging equipment, has again expanded plant facilities. Construction has been completed on a 12,000 square foot addition to the

We can help you!

In addition to lending money to business and individuals for every worthwhile purpose, The Connecticut Bank and Trust Company provides a wide variety of other valuable banking services.

If you have a question involving cash or credit, call on us. We can give you advice and counsel based on years of experience with all sorts of business and financial problems.



THE CONNECTICUT BANK AND TRUST COMPANY

28 Offices . . . serving 20 Connecticut Communities • Consult Your Phone Book For Office Nearest You

MILFORD

HACK and
BAND SAW BLADES

HOLE SAWS

GROUND
FLAT STOCK

ATOM-LUBE MIST
COOLING SYSTEMS

The New
REZISTOR
HIGH SPEED STEEL
BAND TOOLS

THE HENRY G. THOMPSON & SON CO.
Saw Blade Specialists
for Over 80 Years
NEW HAVEN 5, CONNECTICUT

Representing:

TRICO
Low-Carbon Ground Steel Plate

Prime quality 1020 Steel Plate in random sizes, and thicknesses ranging from 3/8" to 5½". Your selection at yard—8¢ per lb.; torch cut to specs—10¢ per lb. Free cutting 1116 steel plate also available. Additional services include: Blanchard grinding (to 84"), edge milling, planing and stress relieving.

LECOUNT
Precision Expanding Mandrels

Expanding Mandrels to accurately hold work for machining, grinding and inspection—available in a range of sizes from ¼" to 7" diameter. Concentricity guaranteed to .001", .0005", or .0002" T.I.R. Wide range of expansion enables one LeCount Mandrel to take the place of several sizes of other type mandrels and arbors.

DELTA
Diamond Grinding Wheels

Complete line of superior quality resin and metal bonded diamond grinding wheels with either natural or "man-made" diamonds. Customed engineered to your particular job and sold on a guaranteed performance basis. Delta Diamond Wheels have a proven record for outperforming many other wheels—yet, they are priced lower than most.

THE GRIMES ENGINEERING CORP.

38 Cody Street, West Hartford, Conn.

existing 24,000 square foot building at 40 Brown House Road.

As another step in a continuing expansion program, the new building houses production facilities needed to meet increasing sales volumes. Also, much larger cleaning systems are now being built, and research and develop ment into new applications demands more space.

Active in the ultrasonics field for more than a decade, Branson has been a major factor in the growth of "silent sound" from little more than a laboratory curiosity to an industrial tool essential for many modern production techniques. Branson gaging instruments use sound waves at frequencies beyond human hearing to measure metal and plastic thicknesses from only one surface, test non-destructively for laminar flaws, and determine metal corrosion rates.

♦ THE MARKETING of what is considered a "first" in boat mirrors has just been announced by William Berk, president of Supersite Corporation, Derby, manufacturers of automotive mirrors, safety devices and chemicals. It is a corrosion-proof rearview mirror with a special radius that widens the scope of a boat operator's view to create a new standard of safety for swimmers, water skiers and boat operators.

The increasing toll of injuries and deaths from water skiing stimulated the development of this design which is appropriately designated "Seascope" by virtue of the panoramic wide angle vision it affords. It is now available to boat owners through marine dealers, boat yard operators, marina and repair yards.

♦ WILLIAM BRAND, founder of William Brand & Co., Incorporated, Willimantic, has recently resigned from the company. Active in the electrical/electronic wire and cable as well as the insulating tubing industry for the past forty years, Mr. Brand indicated that his plans for the future were somewhat tentative in scope.

Mr. Brand founded the William Brand & Co., manufacturers of wire, cable and insulating tubing, in 1920. The company became a subsidiary of the American Enka Corporation last February.

♦ CHARLES L. EYANSON, 67, president of the Naugatuck Valley Industrial Council, Waterbury, since 1946, died Friday, November 20 at the New England Baptist Hospital, Boston, after a short illness. He had been admitted to the hospital on November 11.

Mr. Eyanson had served as executive director and assistant treasurer of the Manufacturers Association of Connecticut from 1922 until 1946 when he organized and became president of the Naugatuck Valley Industrial Council, an industrial service organization serving manufacturers in the Naugatuck Valley. He was also chairman of the Naugatuck Valley River Control Commission, which was organized after the floods of 1955 caused widespread damage along the entire river valley.

Born in Spokane, Washington, Mr. Eyanson received a degree in engineering from the University of Pennsylvania in 1916. After teaching English and Civics at the South Philadelphia night school for a year, he became professor of engineering administration at Drexel Institute in Philadelphia until the start of World War I.

During World War I he served as chief of staff of the Production Engineering Section of the National Defense Council and in 1917 was assigned to the Royal Air Force, serving in England, France and Scotland. He organized and operated a school for aero mechanics. He transferred to the U. S. Air Service in 1919, from which he was honorably discharged March 18 of that year.

Before joining the Manufacturers Association in 1922, Mr. Eyanson served as chief of field staff in an industrial survey of the United States by the Technology Clubs Associated, as a clerk of the Committee on Territories and Insular Possessions of the United States Senate and as director of the Extension Department, Drexel Institute, from 1920 to 1922.

During Mr. Eyanson's 24-year tenure as executive director, the Association expanded from an organization which concerned itself primarily with legislative and transportation matters to one which offered service to its members in the following additional areas: Foreign trade, industrial relations, public relations, taxation and industrial development. The Association's magazine, *Connecticut Industry*, now starting its 38th year of publication, was launched by him in 1923.

Active in numerous fields of legislation of importance to Connecticut industry, particularly in workmen's compensation, unemployment compensation, tariffs and water resources, Mr. Eyanson authored or co-authored numerous reports, articles and books, including a book entitled "Old Age Dependency in Connecticut" and "Unemployment and Its Problems."

He is survived by his widow, Mary, and a daughter, Mrs. William R. Reid, Jr., both of Litchfield. Funeral services were held at the Faford-Nutting Funeral Home at 2:00 P.M., November 23. Burial was in East Cemetery, Litchfield.

♦ THE SALE of six multi-turbine-powered helicopters, the largest fleet of such machines yet purchased for commercial operation, has been announced by Chicago Helicopter Airways and Sikorsky Aircraft, division of United Aircraft Corporation, Stratford. The sale brings to eleven the total number of Sikorsky S-61 turbocopters ordered thus far by the scheduled helicopter airlines.

The helicopters, which will go into service in 1961, will carry 25 passengers, plus air mail and baggage, and will have all-weather flight capability. Power will be provided by two General Electric T-58-8 gas turbine engines of 1,250 shaft horsepower each.

♦ A NEW, high speed, serial numbering press which is air operated, electrically controlled, automatic and capable of numbering 4500 pieces per hour, has been announced by the Noble & Westbrook Manufacturing Company, East Hartford.

The new Model 531 is furnished complete with air control units, consisting of filters, regulators, lubricators and gauges, speed controls, mufflers and electrical switches which make it possible to operate all components independently for set-up purposes. If preferred, the basic press with tooling for single station marking, forming, bending, etc. is also available.

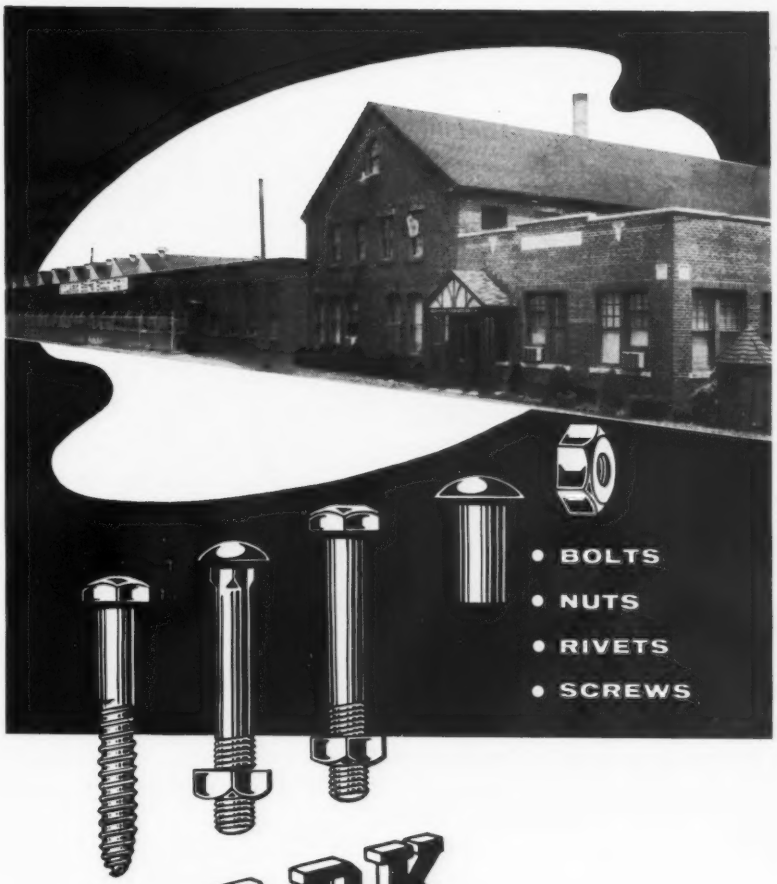
♦ GREAT INTEREST in high production machines manufactured by The Baird Machine Company of Stratford was evident in Peruvian trade circles at the Pacific International Trade Fair held in Lima, Peru recently.

Major interest centered around the Baird #2 Automatic Four Slide Wire Forming Machine. Designed for the high production of articles made of commercial wire or ribbon metal, these machines, when properly tooled, will automatically take coiled stock from a reel and straighten, feed and cut it to required length. The product is then formed and ejected.

Peruvian businessmen were most interested in the machine's ability to mass produce such items as cotter pins, flat metal springs, paper clips, hair pins, electronic parts, jewelry items, and similar articles.

♦ THE SEAMLESS RUBBER COMPANY, New Haven, has announced that by agreement with Vilarrubis Y Sague, S. A., Barcelona, Spain, it is adding a complete line of underwater sports equipment to be marketed by the Seamless Athletic Division beginning January 1.

The new underwater line is to be marketed under the name of "Nemrod by Seamless", and is to be manufac-



CLARK

the RIGHT size supplier

Large enough to fill *all* your requirements on any quantity of bolts, nuts, screws and rivets.

Small enough so your needs aren't "lost in the shuffle".

At CLARK, *every* order is an *important* order . . . receives the *personal attention* and *prompt handling* it deserves.

Write today for complete catalog on quality fasteners by CLARK—the *right* size supplier.

Request

free catalog

covering the complete CLARK line of industrial fasteners.

CLARK

Since CLARK 1854

BROS. BOLT CO. MILLDALE, CONN.

the way to HAVE and HOLD
a safe, beautiful floor

PEDSO METHOD
Plastic Emulsion Dry Sweep Only

ONE, TWO... then DRY SWEEP ONLY

ONE ... no problem

CINDET strips old wax and dirt effortlessly. Cleans thoroughly. Goes far. Lifts old film. Just mop on, let Cindet do the work.

TWO ... no buffing

NOFALS spreads easily, levels beautifully, dries quickly into glass-like slip-resistant film. Apply right up to baseboards. No build-up.

COAST ... no damp mopping

MOPWHYTE - treated cloth picks up dust like a magnet. Cloth (30 x 36, provided by Dolge) is first soaked in solution of 3 parts water to 1 part of Mopwhyte and then dried. One treatment is good for 4000 to 8000 square feet. Cloth can be used over and over again. Mopwhyte can be used right on the mop itself if you prefer.

Nothing more to do for 6 to 10 weeks

For information about this method ask your Dolge Service Man or write:

dependable DOLGE
WESTPORT, CONNECTICUT

tured and supplied to Seamless by the Barcelona firm.

Included in the underwater line are spearguns, masks, fins, regulators, valves, harnesses, and other accessories to provide sporting goods stores and others with all of the essentials for underwater sports enthusiasts.

At the same time, Seamless also announced that Charles M. Smithline, nationally-known aquatic and skin diving instructor, will be retained as a consultant.

♦ FOR HIS CONTRIBUTIONS of time and talent to the contract tool and die industry, Richard F. Moore, president of Moore Special Tool Co., Bridgeport, became the first recipient of the "L. A. Sommer Memorial Award" created by the National Tool & Die Manufacturers Association to pay honor to representatives of member companies who have rendered outstanding service to both the industry and the association.

The award was presented at the 14th annual convention of NTDMA just concluded in New York by Philip R. Marsilius, a former president of the association and executive vice president of The Producto Machine Company, Bridgeport, in the form of a perpetual atmospheric-operated clock inscribed with the tribute.

Mr. Moore was one of the founders of the National Tool & Die Manufacturers Association in 1943 and served as its president from 1944 to 1946, longer than any president since that time. Under his leadership, the membership of the young association more than doubled. Since retiring as president, Mr. Moore has served the association in many capacities including chairman and vice chairman of many important committees and member of the board of trustees.

♦ A NEW, fully transistorized general purpose digital electronic computing system which can serve both scientific and business data processing needs has been announced by Royal Precision Corporation. The new computer system is being manufactured by General Precision Corporation and will be marketed by Royal McBee Corporation, the joint owners of Royal Precision.

Royal McBee president, Philip M. Zenner, said the equipment, the RPC-4000, will be the first transistorized computer in its general price range to offer in one system complete flexibility for handling both business and engineering problems.

The RPC-4000, will be available at a monthly rental of $1,750, or a total sales price of $87,400. This includes the computer and the Tape Typewriter system. No site preparation or installation costs are necessary.

The computer is described as featuring an unusually large storage capacity for data and programs, plus high operating speeds and complete flexibility of input-output. The system is capable of operating on 9-digit numbers at

Richard F. Moore (right) president of Moore Special Tool Co., Bridgeport, is shown receiving the L. A. Sommer Memorial Award from Philip R. Marsilius, executive vice president of The Producto Machine Company, Bridgeport.

rates up to 240,000 operations per minute.

♦ JACK HEGARTY has been named marketing manager for National Semiconductor Corporation, Danbury, according to Dr. Bernard J. Rothlein, president. His appointment represents a major development in the company's program to market high quality transistors which can operate under extreme environmental conditions.

Mr. Hegarty will direct all sales activities for National's line of silicon alloy transistors, which are used in missile, aircraft and industrial electronic applications.

Formerly eastern regional sales manager of Texas Instruments, Inc., Semiconductor Division, Mr. Hegarty has had wide experience in the transistor and semiconductor field.

♦ CLINTON V. NEWMAN has been promoted to product manager for rod and wire by Chase Brass & Copper Co., a subsidiary of Kennecott Copper Corp., according to an announcement recently by G. B. Moseley, vice president—sales for Chase.

Mr. Newman is a graduate of the Missouri School of Mines. He has been an outside salesman assigned to the Chase district office in Detroit during the past six years.

♦ PLANNING five years ahead for the support of human life in space is an active day-to-day project for a group of specialized engineers at Hamilton Standard division of United Aircraft Corporation, Windsor Locks.

Their activities also are broad enough to include investigation of potentially profitable products for Hamilton Standards 15 years hence. Such products, according to Walter C. Shaw, chief of the advanced product planning section, almost certainly will include items for commercial ground applications outside of the fields of aviation and space.

The section has a dual job. First, it is expected to predict future trends in the aerospace industry and make sure that Hamilton Standard is technically ready to exploit them during the next five year period. Second, it is charged with studying the long-term trends of the general economy to discover new industries and new fields which the division can enter during the period five to 15 years from now.

♦ AN ALL-PURPOSE gasoline engine conditioner, marketed nationally through accredited automotive jobbers, is said to improve combustion, increase mileage and remove carbon.

Power-Pal Plus 10, manufactured by Nutmeg Chemical Company, New

ORGANIZED AND LOCATED TO SERVE CONNECTICUT INDUSTRY

Method Improvement — *Management Controls*

Wage Incentives — *Labor Contacts*

Production Control — *Marketing Research*

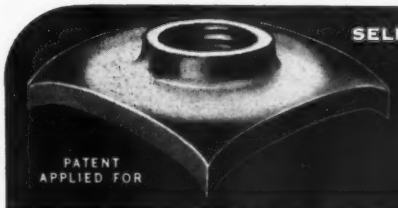
Supervisory Bonus Plans

★

BAVIER, BULGER & McCULLOUGH

Management Consultants

NAUGATUCK, CONNECTICUT



SELF-GRIPPING • SELF-LOCKING

P-M NUT

CUTS COST, SPEEDS ASSEMBLY . . .
ELIMINATES WASHERS, WRENCHES

High-quality, low-cost nut is made of spring-tempered high carbon steel or of tempered aluminum. Has cut threads and a flange with turned-down corners which bite into material to which applied. Spring flange is deflected during tightening for vibration-proof assembly. Used by leading manufacturers. Available in sizes 6-32 through ¼"-20. Other sizes in process.

P-M ROLL-FREE DRAWN STEEL STUD

Effects unusual savings over solid studs for most roller mounting. Standard sizes in steel, stainless steel or brass or to your specifications.

STAMPINGS

We have combined plant and equipment with engineering skill to provide accuracy, economy and service to many industries which use volume production. We can do so for you, too. Send samples or prints for quotations.

Write for FREE Literature and Samples

THE WATERBURY PRESSED METAL CO.

300 CHASE AVE. • WATERBURY 14, CONN.

INDUSTRIAL

VENTILATING SUPPLIES

Equipment for Industrial dust collecting and ventilating.

Exhaust Fans and Blowers of all types

VENTILATING SUPPLIES INC.
PLAINVILLE, CONN.
Box 312
Phone SHerwood 7-9332

Complete Creative Services

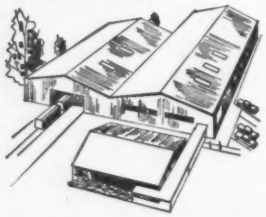
INDUSTRIAL and CONSUMER ADVERTISING
MARKETING
PUBLIC RELATIONS

Julian Gross and Associates, Inc.
Advertising

TRADE PUBLICITY
SALES PROMOTION
DIRECT MAIL CAMPAIGNS
SALES MANUALS
CATALOGS
PRODUCT LITERATURE

770 ASYLUM AVE.
HARTFORD 5, CONN.
TEL. CH 9-8491

PLANNING AN INDUSTRIAL BUILDING?



Let us help you plan with CUCKLER Steel Span BUILDINGS
The North Haven Lumber Co.
150 Washington Avenue
North Haven, Conn.
CE-9-1648

Haven, is a concentrated blend of scientifically tested and proven solvents that also function as an extreme pressure lubricant. It is sold in containers ranging in size from four-ounce bottles to 55-gallon drums.

♦ CONTRACTS forming BICC-Brundy, Ltd. were signed in London, England recently by representatives of both participants in the joint venture. The new firm was formed to manufacture and sell electrical connectors through most of the British Commonwealth.

♦ THE NEW ISSUE of Die Set Digest, publication of The Producto Machine Company, Bridgeport, describes the many activities of die set manufacturers calculated to help die set users in the performance of their jobs.

The article calls attention to such aids as printed die set templates, decimal equivalent charts, die spring load comparison charts, and individual help in designing unusual one-of-a-kind sets for special applications.

Copies are available from the company.

♦ AT A CEREMONY in the company cafeteria recently, the Greist Manufacturing Company, New Haven, received the National Safety Council first-place award for their performance in the metals division of the National Safety Contest.

Everett Martin, president of the New Haven Safety Council, presented the award to Hubert M. Greist, vice president of the company.

The first-place award was achieved by the company for not having a single lost-time accident from September 1958 to October 1959.

♦ A FULL RANGE of cam blanks for Swiss-type screw machines is now being offered by the American Cam Company, Hartford. The company states that the blanks are made of the best grade of Meehanite and will give excellent wear resistance without heat treating.

Available in sizes from 110 by 7 by 20 mm to 190 by 10 by 24 mm, the disk-type Swiss cam blanks offered by AMCAM are Blanchard ground on both sides. Mounting holes are to tolerances of + .002", —.000".

♦ THE WARNER Brothers Company, Bridgeport, leader in the corset industry for the past 85 years, is now marketing a new cold water soap. The soap, called "Warner Wash" contains an optical whitener called "Vitalast", which keeps whites whiter and other colors truer, according to Henry P.

ANDERSON
ASSOCIATES
Safety Consultants To Management

Specializing in Occupational Accident Control and Prevention

P. O. BOX 6054
HAMDEN 17, CONN.
CHestnut 8-6384

ALLEN RUSSELL & ALLEN

31 Lewis St. Hartford, Conn.

Insurance

Over 50 Years of Service to Connecticut Manufacturers

RUDDER
Window Cleaning, Inc.

Window Cleaning
Light Fixture Cleaning
Vacuum Cleaning
General Cleaning

One of Connecticut's largest cleaning companies covering the State

28 Sterling St. Hartford
JA 7-3171

"Warner Wash," new product of The Warner Brother Company, Bridgeport.

Coogan, vice president and director of merchandise.

"Warner Wash" was developed in Warner laboratories, especially for all fine washables, and will be distributed through the company's present sales organization. It will be given national advertising.

♦ TWO PERSONNEL CHANGES have been announced by Stromberg Division, General Time Corporation, Thomaston.

John R. Draper has been appointed national sales manager, Data Systems. In his new position Mr. Draper will be responsible for the marketing and sale of the Stromberg Transacter, the company's newly introduced electronic data collection system. Prior to his recent promotion, Mr. Draper had been located in the company's New York Office, where he held the post of Data Systems eastern district manager.

Leslie A. Toon has been named manager of quality control at Stromberg. A graduate of the Yale class of 1947, Mr. Toon was previously associated with Hamilton Standard in Windsor Locks, and more recently in Broad Brook, where he was development engineer and quality control supervisor with the company's Lockheed Hercules project.

♦ THE PRODUCTION of a new automatic drill unit designed for use, with standard Hartford "Building Block" components, in automatic production machines engineered to specific job requirements, has been announced by The Hartford Special Machinery Company, Hartford.

Known as the Model 17-400, this new unit is said to feature air-hydraulic operation, a system that provides the smooth, positive action and easy adjustability characteristic of all hydraulic systems.

Described as ideally suited to jobs calling for versatility and adaptability, the Model 17-400 provides fast positive adjustment for rapid advance, length of feed, rate of feed, and total length of stroke.

More detailed information, including complete specifications and engineering data, is covered in a new circular, copies of which are available from the company.

♦ TRANS-LITE, INC. of Milford, manufacturers of lighting equipment for the transportation industry, has announced the purchase of the transportation product line of the Delta-Star Electric Division, H. K. Porter Company, Inc. The line, formerly produced at Porter's Electric Service Works in Philadelphia, consists of interior and exterior lighting for buses, subway and elevated cars, plus other items used on transportation vehicles.

H. W. Jones, president, stated this acquisition will broaden Trans-Lite's present scope of operations which are primarily in the aircraft and railroad car lighting fields.

♦ THE LATEST miracle of electronic engineering designed especially for the secretary, the new Gray Key-Noter Secretarial has been announced by the Gray Manufacturing Company of Hartford. The Secretarial is the latest addition to the Gray Audograph Advanced Design Line of Dictation Instruments and is a twin to the famed Gray Key-Noter Executive dictating machine.

The new model is a complete transcription system with finger tip dial

UNBELIEVABLE? ...NO!

ANY
RESIDENT
OF CONNECTICUT
MAY NOW
JOIN
CMS.

BOX 101
NEW HAVEN

SPONSORED BY THE CONNECTICUT STATE MEDICAL SOCIETY
IT'S PART OF CONNECTICUT
CMS

Connecticut Medical Service, Inc.
The Blue Shield Plan for Connecticut
GENERAL OFFICES • NEW HAVEN

Eliminate situations like this "Cord Stretcher"

PLUGMOLD®
GIVES MORE OUTLETS FOR LESS MONEY

Situations like this can't happen with PLUGMOLD, used for ample outlets in all kinds of buildings. Wide variety of sizes and spacing. All-steel, grounded. PLUGMOLD gives HOUSEPOWER-PLUS; work-power-plus! Simple to install on any surface. Paint to match anything.

WIREMOLD®
THE WIREMOLD COMPANY • HARTFORD 10, CONN.

controls; indicator lights; the finest in voice fidelity reproduction; small in size; light in weight; attractive in styling and color and easy to use.

♦ W. V. STARKIE, president of L. L. Ensworth & Son, Inc., Hartford, has received, for his company, the Rust-Oleum plaque for outstanding sales achievement during 1958 from Thomas F. O'Malley, New England principal representative of Rust-Oleum Corporation, the largest manufacturer of rust preventive coatings in the world.

A prominent Connecticut industrial distributor, the Ensworth firm is one of the oldest suppliers of steel and industrial supplies in the United States. Starting business on State Street, Hartford, in 1799, the company now occupies a new plant at 270 Locust Street with an area of 80,000 square feet. Here they maintain a Steel Service Center and carry a complete stock of 15,000 items for contractors and industries throughout the state.

♦ TWO NEW data sheets dealing with the use of Wiremold surface raceways in entirely different office applications have been released by The Wiremold Company, Hartford.

Data Sheet A-12 deals with the use of No. 3000 Wiremold as a ceiling duct for telephone installations in a reinforced concrete multi-storied office building and points out how the economics realized are reflected in both wiring costs and in the cost of the structure.

Plugmold 2200 as a combination multi-outlet and raceway system which provides a versatile solution to the problem of wiring for various types of accounting equipment is described in Data Sheet A-13 which explains how the No. 2200 combination system provides the necessary means for circuitry required to assure adequate voltage for such factors as length of run, starting currents, and number of machines on each line, for both presently installed and future units.

♦ JOHN D. DEWHURST, president of Arrow Tool Company, Wethersfield, was re-elected secretary of the National Tool & Die Manufacturers Association at its 14th annual convention held recently in New York.

Mr. Dewhurst also serves as chairman of the Apprenticeship Committee of the association which represents more than 1,000 leading special tool, die and machine plants in the U. S. and Canada.

♦ THE AVAILABILITY of a new push button actuated (non-adjustable) interval timer has been announced by Haydon Division of General Time Corporation, Torrington. These timers, known as Series AT-35 are totally enclosed, motor driven switching devices for use in the control of vending machines, hand dryers, photocopying equipment, etc.

The AT-35 Interval Timer allows repetitive actuation of a factory-set interval by means of a push button and eliminates the necessity of hand selection. The timing interval is initiated by manually setting to a selected interval. At the completion of this interval, the switch opens, de-energizing the load and the timing motor.

Described as exceptionally rugged and compact, the timer has a housing of molded phenolic, offering a rigid, dust tight construction that will assure reliable performance under adverse ambient conditions.

♦ BRUNNER Division, Dunham-Bush, Inc., West Hartford, has announced a new line of water cooled air compressors, the "WJ" and "WK" in a range from 10 through 30 HP. The water cooled line is designed for maximum cooling and high efficiencies on severe industrial services and where high ambient temperatures may be experienced.

Maximum discharge pressures of 125 psi are recommended. Brunner suction valves guarantee 100% unload start at all times. The positive suction

4

The Torrington Manufacturing Company of Torrington, Connecticut produces fine products in four major areas: air impellers, blower units, wire and strip forming machinery, and mill machinery.

E S M
THE EASTERN STEEL & METAL CO.
52 RICHARDS ST., WEST HAVEN, CONN.

STEEL

Enjoy the superior service of a Steel Warehouse with MODERN PRODUCTION METHODS . . . AMPLE INVENTORY . . . FAST, RELIABLE DELIVERY . . . a reputation for placing Customer Service above every other consideration.

Now . . . **ALUMINUM** — As a distributor for the Aluminum Division of the Revere Copper and Brass Co., EASTERN can now assure you these same prime advantages with all your aluminum requirements.

valve provides unloading for constant operation. Dual control, continuous or start-stop can be supplied as an extra feature.

♦ JOHN F. CARR has been elected a vice president of General Time Corp, it has been announced by Donald J. Hawthorne.

Mr. Carr continues as general manager of the company's Stromberg division at Thomaston. He joined General Time in 1954 as executive vice president and general manager of Stromberg Time Corp.

♦ PLANS to nearly double the size of its Newington plant have been announced by The Fafnir Bearing Company, New Britain.

The existing Newington plant, which went into operation in 1956, covers 220,000 square feet and employs about 600 persons. Completion of the expansion is expected by late fall. The addition will enable Fafnir to process larger size bearings from start to finish in a one-floor operation. Additional finished stores and shipping facilities in Newington are contemplated as part of the expansion.

Fafnir disclosed at the same time that a contract has been signed under which Fafnir Bearing Company Limited, a wholly owned subsidiary, will acquire the assets and business of Fischer Bearings Company Limited, a British subsidiary of The Timken Roller Bearing Company.

Fischer is the fourth largest bearing manufacturer in England. The company employs 1500 persons in two plants. The purchase marks Fafnir's first entrance into foreign manufacture. Because of lower labor costs in England, the acquisition will enable Fafnir to compete more effectively in Western Europe and other foreign areas.

Stanley M. Cooper, chairman of the Fafnir Board of Directors, will assume the position of chairman and managing director of Fafnir of England and will direct the organization and expansion.

♦ THE APPOINTMENT of the American Tube Bending Company, New Haven, as distributors of its Styroflex, Spirafil and Foamflex co-axial cable lines has been announced by Phelps Dodge Copper Products Corporation. The New Haven company will distribute short lengths of the cable, hitherto unavailable and also provide custom fabrication service.

"A solid year of research, followed by intensive testing and the design of special tools and machinery, has gone into the building of our custom configuration service," said Henry W. Jones, III, vice president of American

Advertise in The Directory of

NEW ENGLAND MANUFACTURERS

to reach this industrial market

2000 PAID CIRCULATION AT $45 PER COPY

1961
(25th Anniversary)
EDITION

To be published on
AUGUST 1, 1960

Forms close on
JUNE 1, 1960

Bold face listings accepted in all sections

Display advertising accepted in Products Section

Trade mark listings accepted in Alphabetical Section

Consulted by: Manufacturers, distributors, utility companies, banks, railroads, government departments, engineers, contractors, manufacturers' agents, etc.

Available for reference at: Public Libraries, Chambers of Commerce, Manufacturers' Associations, and at U. S. Embassies in foreign countries.

To obtain favored positions it is suggested that you contract for your space immediately. Copy and cuts can be forwarded later—up to the time of closing on June 1, 1960.

Consult our Connecticut Representatives

SPOLEN MAGAZINES
Publishers' Representatives
15 LEWIS STREET
HARTFORD 3 **CH 7-9610**

Precision Plus Reserve Strength

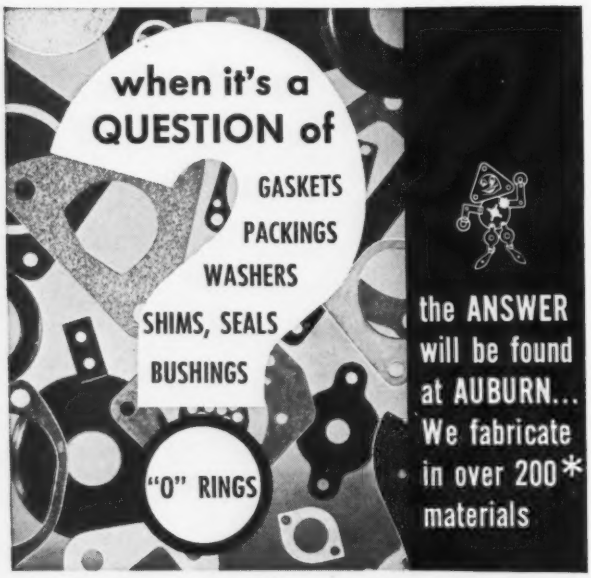
STORTSWELDED machine bases and frames, work tables, stands and benches have a trim and true look which expresses the painstaking care that has been devoted to maintaining dimensional accuracy during fabrication. This high precision is vital to efficient functioning of the completed equipment. Also it assures proper load distribution in the structure which Storts full-strength welds are planned to develop.

Storts Welding Company
INCORPORATED
44 Stone Street **Meriden, Conn.**
Manufacturers of Welded Fabrications to Specifications

SIROCCO
SCREENPRINTS

Located in the heart of the Connecticut industrial area. Printing on any surface-paper, metal, cloth, plastics, by the Silk Screen process. Long or short runs on any flat or cylindrical surface, printed economically. Competent personnel, dependable service, competitive prices.

425 WEST ROCK AVE.
NEW HAVEN • FUlton 7-4474



* Leather • Asbestos • Nylon • Vinyl • Teflon • Silicone Rubber • Neoprene Rubber • Cork • Fibre • Compositions • Phenolics • Cloth • Felt • Paper Cardboard • Plastics • Brass • Steel • Copper • Aluminum • Kel-F • Viton A Mylar • Other Special Materials

Send specifications or blueprints for prompt quotations and recommendations. No obligation.

THE AUBURN MANUFACTURING CO.
311 Stack St., Middletown, Conn.

New York, N. Y.; Rochester, N. Y.; Detroit, Mich.; Chicago, Ill.; Minneapolis, Minn.; Pittsburgh, Pa.; Cincinnati, Ohio; Ridgewood, N. J.; Atlanta, Ga.; Memphis, Tenn.; St. Louis, Mo.; Washington, D. C.

Tube." We can now achieve bends and configurations without metallurgical or electrical distortion which tremendously increases the possible applications for Styroflex, Spirafil and Foamflex."

The three co-axial cables are all air dielectric, semi-flexible, aluminum sheathed types designed for use in the broadcast, communications, scatter, microwave and community antenna fields. They differ, one from the other in internal structure only.

♦ THE BARDEN CORPORATION, Danbury, completed the consolidation of its production and administrative departments recently with the moving of its offices to its new Park Avenue plant.

Completion of the office wing represents the latest step in the expansion and modernization program begun in 1957 by the precision ball bearing manufacturer.

♦ JAMES R. NYE, vice president of Electronic Specialty Co. and general manager of the Technicraft Division, Thomaston, has announced the appointment of Elmer R. Sticco, CPA as controller; Edwin A. Jacques as purchasing agent; H. W. Hale as administrative assistant, and A. A. Martinelli as engineering coordinator of the Technicraft Division.

The Technicraft Division, formerly Technicraft Laboratories, Inc., is a manufacturer of components and sub-systems for the microwave industry. Founded in 1947, Technicraft is a pioneer in the development and manufacture of waveguides and in microwave communications and electronic counter-measures systems.

♦ WILLIAM R. HOYT, who has been associated with the Yale & Towne Mfg. Co., Stamford, for 57 years, and who long has been identified with the industrial and civic life of Stamford, has retired from the company.

Mr. Hoyt's career started in 1902 in the Stamford plant, and in 1908 he was graduated from the company's apprentice school. From 1929 to 1931 he was controller of production for all Yale & Towne plants. In 1931 he was made works manager of the Yale Materials Handling Division in Philadelphia.

In 1940 he returned to Stamford as general manager of the Stamford Division, which subsequently developed into the Yale Lock & Hardware Division.

In 1947 Mr. Hoyt was brought into the executive offices of the corporation in New York where he actively participated in the company's world-wide expansion program.

♦ THE CONNECTICUT Governor's

Committee on the Employment of the Handicapped is again this year sponsoring an essay contest with all eleventh and twelfth grade students in the state being eligible to vie for $1,000 in prize money by writing an essay on the 1960 theme "Job for the Handicapped, Passports to Dignity."

Since the essays must be original, students will be seeking information from industry and business until January 20, 1960, the final date for posting entries. Thomas J. Skelley, Jr., vice chairman of the committee, has expressed the hope that all business people approached by the students will offer their full cooperation.

The winner of the first prize in the Connecticut contest will compete with essay winners in other states for the $2,000 in prize money offered by the President's Committee on the Employment of the Physically Handicapped.

♦ DIRECTORS of the Echlin Manufacturing Company of Branford have approved a transaction under which the United Parts Manufacturing Company of Chicago will be merged into and become a brake parts division of the Echlin company.

The merger would mean for the Branford company a product diversity and an improved competitive position. The United Parts Mfg. Co. makes hydraulic brake parts, brake cables, fuel pump parts and speedometer cables.

♦ ERNEST R. SLOAN has been elected vice president of Charles of the Ritz, Inc., Norwalk. For the past six years Dr. Sloan has been general manager of the cosmetic firm.

Dr. Sloan serves as a director of the Norwalk Chamber of Commerce, the Stamford-Greenwich Manufacturers Council and the Norwalk United Fund.

Thermocouple—Key To Technical Revolution

(Continued from page 7)

have all benefited from Harco's knowledge of thermocouple thermometry.

Today, Harco has the finest and most exacting equipment for laboratory calibration of thermocouple systems. This has been patterned after techniques used by the National Bureau of Standards. To these requirements they added their own refinements. The result has been the ascertaining of laboratory accuracies on a production basis.

When Mr. Marshall launched the unique Harco division, he planned a gradual growth correlated with the industries' needs, expansion, acquired knowledge and useful applications. His hopes have been realized. In 1952, ten men comprised the novel department. Two years later, Harco Laboratories became a corporation and was separated from the asbestos manufacturing operation.

Rapid Growth

Now, Harco has a personnel staff, men and women, of approximately one-hundred. It has kept pace with the burgeoning thermocouple. "By 1961, we estimate a total staff of two-hundred people," Mr. Marshall says. Presently, Harco is considered to be one of the most knowing leaders in this highly specialized field.

Their thermocouples measure gas, air temperatures, surface temperatures of metals, semi-solids, plastics, liquids and semi-liquids. Their units probe deep into jet and gas turbo engines and nuclear core reactors. They also supply harnesses, extension leads, connectors and wires for thermocouples.

We now stand on the brink of a technical revolution. Refrigerators without motors or moving parts, noiseless power mowers (a blessing to suburbia) and other countless benefits will become realities in our lifetime. And Harco Laboratories will continue to rub this astounding Alladin's Lamp which, for too long, has remained untouched.

DESIGNED FOR GREATER STRENGTH!

The man working from a Flint Safety-Platform Ladder is protected by extra tough side rails, steps double strengthened by steel rods and diagonal braces, and heavy duty, aluminum double-ears and plates at ladder top.

He is provided large, firm standing space by the sturdy, oversize 14" x 18" safety-platform. The unique top-cap is drilled and grooved to prevent his dropping heavy tools, nails or screws to the floor.

Built of select materials and thoroughly seasoned ladder stock, the Flint Safety-Platform Ladder gives extra safety, greater strength and durability than ordinary ladders.

Manufacturers of quality ladders since 1880, Flint is your best and safest ladder buy.

THIS FLINT LADDER GUARDS HIS SAFETY

Write to Dept. B for complete catalog of Flint Certified Ladders & Staging.

Underwriters' Laboratories, Inc. INSPECTED

THE WORLD'S FLINT SINCE 1880 Ladders SAFEST LADDERS

A. W. FLINT CO., 196 CHAPEL STREET, NEW HAVEN, CONN.
"Ladder Manufacturing Specialists Since 1880"

THIS IS YOUR ONE SOURCE FOR ALL CLEANING SUPPLIES

RAPID DELIVERY ASSURED BY MODERN NEW FULLER BRUSH PLANT

Supplemented by 9 Regional Warehouses

Save time and money by concentrating on cleaning supplies of Fuller Brush quality. Complete range of industrial floor brushes, brooms, wet and dry mops, scrub brushes, cleaning and maintenance chemicals, floor and furniture polishes and waxes provide a choice from which you select items best suited to your needs. Get professional assistance from your local, company-employed Fuller Brush Industrial Man. Find him through the Yellow Pages of your phone book.

Industrial Products Division

THE FULLER BRUSH CO.

3616 FULLER PARK, EAST HARTFORD 8, CONN.

How Would You Decide?

By Fredrick H. Waterhouse
Executive Vice-President

Does "Up To Three Days" Mean "Three Days?"

Here's what happened.

The contract in question provided that the company would "compensate the employees for any loss of wages, not to exceed three (3) days, in the case of the death of a member of the employee's immediate family." The clause then went on to define the term "immediate family." The employee's mother died on Sunday, February 22 and was buried Wednesday, February 25th. The contract also provided for holiday pay for February 22nd. Since the holiday fell on Sunday it was observed on Monday the 23rd, and thus the 23rd was recognized as a paid holiday. The grievant did not return to work until a full week later, Monday, March 2nd. The company paid him for three days but claimed it was not required to pay him for the holiday twice, nor to extend the pay for death in the family beyond the day of the funeral. The union claimed the employee was entitled to be absent from work for three days and be paid for them in addition to his holiday pay. It claimed the date of the funeral was immaterial and that an employee might have many reasons for extending his absence beyond the date of the funeral. No mention was made of any peculiar reason why this employee remained out beyond the date of the funeral. The company further claimed that "up to three days" was not a guarantee of three days off, as the death might occur at a time when or under circumstances which would eliminate the need for any time off to attend the funeral or memorial services.

What does "up to three days" mean?

The arbitration board ruled that under this clause the employee could take any three days off and must be paid. The day of the funeral was immaterial. It did shy away from pyramiding time-off pay for the holiday but allowed the employee pay for the following three days. The board stated the company should have mentioned the day of the funeral as the terminal date if it intended that result. Whether it would have given two days pay for the holiday coming within the funeral-leave period if the employee had returned to work the day after the funeral was carefully avoided.

Who has the burden of proving "Practicability" under a clause requiring recall "As far as practicable" before increasing hours?

Here's what happened.

The grievent had worked intermittently for many years but had relative short seniority. When work became slack the second shift was discontinued, hours were reduced to 32 on the first shift, and eventually the grievant was laid off. Some time later he was recalled and offered work in a lower labor grade but refused it as being too menial. A less senior employee was then recalled and accepted the work available. As business improved the hours were extended to 40 and eventually some employees were working overtime but the grievant still was not recalled. He then filed a grievance claiming there was sufficient work especially since the department was working some overtime and he should be recalled. The company contended it was not practicable to reemploy him as yet because of lack of equipment and the nature of the work. The union claimed he should have been rehired before the company went to 40 hours. The union advanced several methods for running the plant and said a second shift was warranted as well as room for more employees on the first shift. The company felt the union was not in a position to dictate the number of shifts or employees, as yet. The union further claimed the company had the burden of affirmatively demonstrating it was not practicable to rehire the grievant.

Who has the burden of proving practicability or impracticability?

The arbitrator wrestled with the management problem all over the lot and finally ruled that although he could not prescribe how it should be done, he nevertheless could not understand why it would have been impracticable to rehire the grievant when the

Consult The Directory of

NEW ENGLAND MANUFACTURERS

for this marketing information

1960 EDITION
now available
$45
per copy
784 pp.

Published annually, since 1936, with the Editorial Cooperation of the New England Council.

MAINE
VERMONT
NEW HAMPSHIRE
MASSACHUSETTS
RHODE ISLAND
CONNECTICUT

13,000 MANUFACTURERS LISTED IN 3 SECTIONS

Alphabetical: Each listing gives business name, home office and branch office addresses; plus names of 25,000 top executives, products manufactured and services rendered, plant locations, number of employees, and capital ratings for corporations.

Geographical: These 13,000 manufacturers listed by State, and City or Town.

Product: These 13,000 manufacturers classified according to 3,000 different products and services.

(Plus an alphabetical listing of 3700 Brand Names with name of manufacturers.)

If you would like to see a copy of this 1960 Edition, before ordering, call or write our Connecticut Representatives: Spolen Magazines, 15 Lewis Street, Hartford 3; CHapel 7-9610.

Published by

GEORGE D. HALL COMPANY
20 KILBY STREET BOSTON 9, MASS.

company began overtime work. Accordingly, he left it to the company to find a way. He ruled the union had established a prima facie case of practicability and the company had then failed to convince him of the impracticability. The company should have recalled the grievant when employees began to work overtime.

Does willful disobedience of a supervisor's order justify a two-day layoff.

Here's what happened.

The business of the employer involved a certain part of the construction industry in which the grievant was employed as a truck driver and he also served as shop steward for the union. On the morning in question it was raining and the company in question had received a number of cancellations of orders. The grievant appeared for work at the regular starting time but was told by the supervisor to delay punching in for a half hour to see whether there was sufficient work for the day. The company had posted a notice on the bulletin board requiring employees to call in before reporting on rainy days but this rule was generally ignored. However, the company usually directed the employees who showed up for work regardless of this rule to refrain from ringing in until the day's work could be determined. In spite of the supervisor's instruction the grievant rang in at the regular starting time and thus encouraged a number of other employees to do likewise. The company then imposed a two-day suspension on the grievant for willful misconduct in ringing in contrary to the instructions of the supervisor. The union claimed that this particular employee had ignored the request of the supervisor in the past and he questioned the right of the company to require employees to delay punching in on stormy days. The grievant also denied that he had directed the other employees to follow his example and therefore he was being singled out for special treatment.

Is an employee required to follow the supervisor's order when he thinks the order is unjustified?

As pointed out by the arbitration board, the issue is not whether the company had the right to require employees to delay punching in, nor whether the grievant had a right to question such an order. The employee had a responsibility to obey the order and use recourse to the grievance procedure if he wished to challenge it. The company was justified in the two-day suspension.

GLASS CONTAINERS

featuring: Quality Reliability Service

for all your needs are now available from New England's newest, most modern glass container plant. Find out how The Feldman Glass Co.'s more than 63 years of glass know-how can serve you. Contact offices at 261 Wolcott Street, New Haven.

THE FELDMAN GLASS COMPANY

authorized representatives for

the new **/KNOX GLASS**

DOWD WYLLIE & OLSON INC.

106 ANN ST. HARTFORD, CONN.

Tell Your Story!

with

PRINTING PLATES

by

Dowd, Wyllie & Olson

106 Ann St. Hartford, Conn.

free!

Data on proven way to secure productive commission salesmen. MAIL COUPON!

ALBEE-CAMPBELL, INC.

National Headquarters for Manufacturers' Agents

East Street, New Canaan, Conn.

Please send your new brochure on commission salesmen.

NAME _____

COMPANY _____

STREET _____

CITY _____ STATE _____

PLATING ROOM EQUIPMENT

P.V.C.

Plastic hoods, pipe, & fittings.

Stainless Steel

Exhaust Fans

Tanks

THE COLONIAL BLOWER CO.

54 LEWIS ST.

PLAINVILLE, CONN.

Phone SHerwood 7-2753

Designers and Manufacturers

of Tools, Dies, Jigs, Fixtures and Gages

Jig Boring and Jig Grinding
Precision Form Grinding
Planing, Boring, Turning
Cincinnati, Lucas and Bullard Machines

We build Special Machinery and Parts
Welded Fabrications
We will do your Stampings and Spot Welding
Progressive — Swedging
Broaching — Drawing
Short Runs — Long Runs

THE SWAN TOOL & MACHINE CO.

30 Bartholomew Avenue

HARTFORD 6, CONNECTICUT

TECHNICAL WRITING SERVICES

General Instructions

Maintenance Instructions

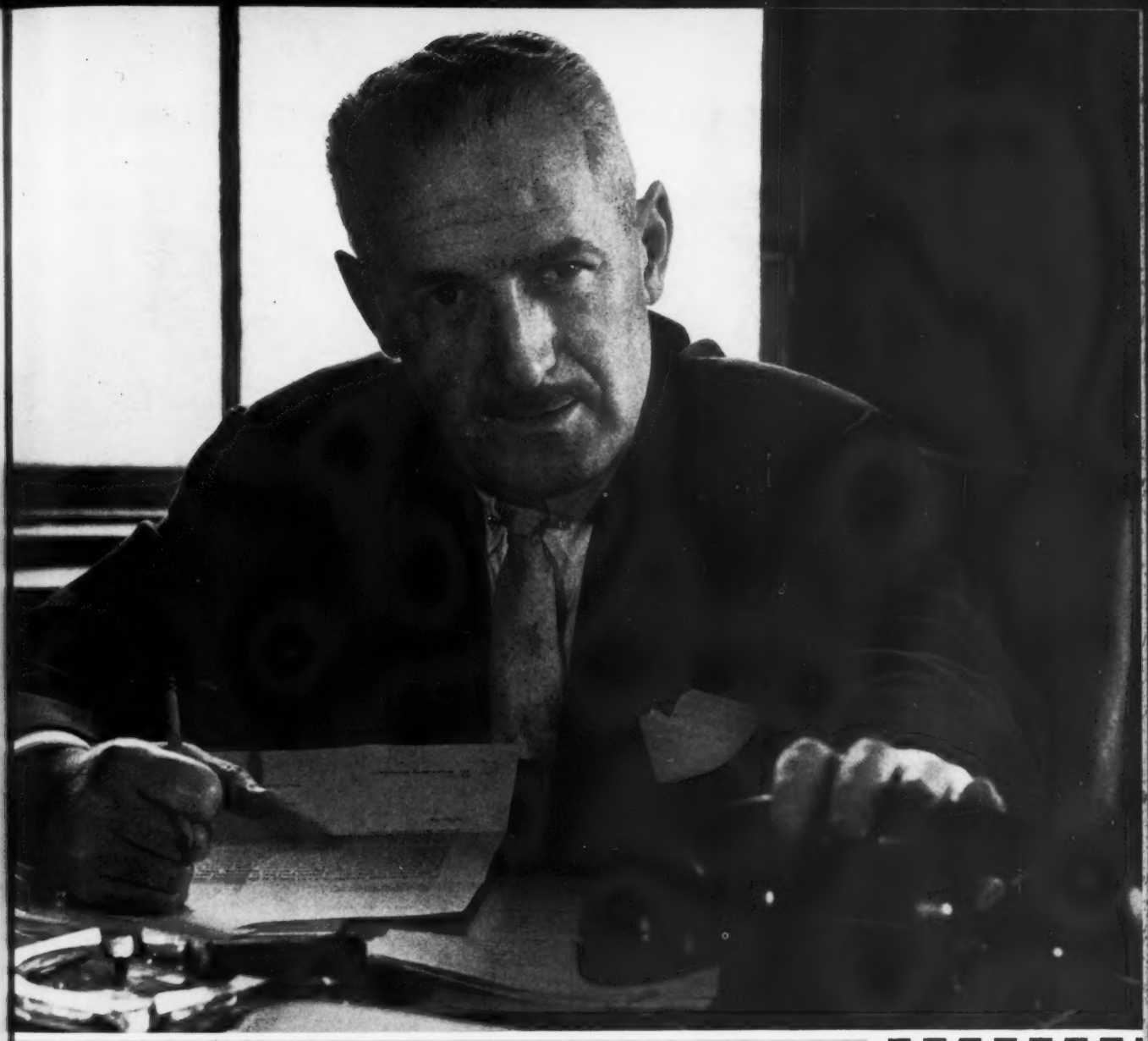
Technical Reports

Prepared from submitted data and written to the engineering, layman, or juvenile level of understanding.

Estimates without obligation.

P.O.B. 6153

BRIDGEPORT 6, CONN.



ARE YOU PLANNING TO HIRE A CONSULTING FIRM?

Among Connecticut residents are some of the finest business brains in the world. We have several of them who have graduated from Madison Avenue consulting firms to join the Wizards at Wilton.

Here in the country these consultants can think clearly, work with fewer interruptions, save three hours daily wear and tear commuting unnecessarily, drop in the office evenings and on weekends and apply more time to our clients' problems.

Adding it up, our clients receive *more applied talent time* for the same money. This means lower cost per unit of applied talent.

We ask you to take this opportunity to learn more about the talent pool we have assembled to help supplement competent management.

Wirth Management Company

CONSULTING MANAGEMENT ENGINEERS

WIRTH BUILDING . . . 382 DANBURY ROAD (ROUTE 7)

Wilton, Connecticut . . . POrter 2-5551

Attach to your letterhe

Check off the areas in which you may have some future interest:

DIVERSIFICATION

- ☐ *Develop New Products*
- ☐ *Acquire a New Product*
- ☐ *Buy Another Business*
- ☐ *Merge with Listed Compa*
- ☐ *Divest Product Line*
- ☐ *Sell Business*

ORGANIZATION

- ☐ *Clarify Responsibility*
- ☐ *Revise Compensation Pla*

MARKETING

- ☐ *Arrest Declining Sales*
- ☐ *Improve Share of Marke*
- ☐ *Expand Distribution*
- ☐ *Study Market Potentials*
- ☐ *Market New Product*

FINANCING

- ☐ *Obtain Working Capital*
- ☐ *Finance New Plant*

Pack up your troubles in your new kit bag

1.

"I'm aching for a Group insurance plan," said Ray Martell,
"But I can't stretch my budget for the extra personnel.
I've only ten employees, and with all that paper work
I'd have to let my business hang and double as a clerk."

2.

Undaunted, Travelers' man replied, "No need to add a crew.
Let our Administrative File save paper work for you.
From adding names to paying claims this kit has all it takes
To let you handle Group insurance during coffee breaks."

3.

"With Major Medical and pensions, health and life to boot,"
Exulted Ray, "my men are safe—their future's absolute!"
Within a week he made a claim (the acid test was passed):
The kit did almost everything but mix the plaster cast.

4.

So, now Ray's loyal men praise Travelers' sure security,
And Ray extols The Travelers' kit for its simplicity.
As few as ten employees* can enjoy this Travelers plan,
And you'll appreciate the kit—so ask a Travelers man.

AMERICAN BUSINESS SECURITY THROUGH THE TRAVELERS

THE TRAVELERS
Insurance Companies
HARTFORD 15, CONNECTICUT

*Minimum of 15 required in Florida.

All forms of business and personal insurance including Life • Accident • Group • Fire • Marine • Automobile • Casualty • Bonds

Public Relations

By Charles E. Reiche
Public Relations Director

Communications With Personnel

♦ MOST industrial leaders today take the position that effective communications between management and employes is one of the basic keys to mutual understanding and thus to good personnel relations.

Effective communication breaks down into *what* we seek to communicate and *how* we are to do it.

As for the *what*, management men agree generally that among the things our personnel want to know about are: corporate finances, corporate products, sales prospects, expansion plans, research and development, corporate history, tax problems, the position of the company in its own industry and the outlook for that industry as a whole.

Possibly not everyone will agree on the foregoing list in toto. But assuming we feel that our employes should be kept informed, the items just mentioned are the ones in which your personnel will probably have the greatest interest.

It is essential, too, to recognize that informing the employes is not confined to big industry. If you have a small shop with only three or four people in it, your problems are easy. You can communicate with them without undue complications as problems develop from day to day. The larger your industry is, the more difficult it is to get the word quickly and accurately to everyone in the plant. But informing the employes is important no matter how many of them you may have. It is, again, one of the keys to good personnel relations.

There are literally dozens of ways which serve the *how* of communication between management and employes. These techniques have been explored again and again in various MAC publications and elsewhere. They include newsletters to employes, plant bulletin boards, personal letters addressed to the homes of employes, annual reports and so on and on. All of these devices are sound and historically well-established.

Jobholder Meetings

There is one, though, which isn't so firmly established nor has it so much publicity as the others. This is the jobholder's meeting. This practice is particularly well adapted to the needs of the small industries which make up a large portion of Connecticut's manufacturing economy, companies in the 25 to 250-employe category.

Bearing in mind that your employes are, save a small minority, genuinely interested in the company for which they work, you should consider occasional meetings in the plant, during working hours, at which your top management can spell out for employes what is going on.

It is best to have jobholders' meetings without a question period. Explain, however, that management will be glad to answer questions on a face-to-face basis with individuals once the meeting is over.

The jobholders' meeting also can be used by large industries, with more or less the same format as the annual shareholders' meetings, but when a large company uses such a meeting it should try to keep attendance to 200-300 but hold as many sessions as needed to cover the entire personnel.

The jobholders' meeting is a proven technique for maintaining good personnel relations and one to which you should give serious thought.

"Per-Job" Public Relations

There is plenty of evidence at hand that many small businesses—industrial or otherwise—balk at public relations per se because of the costs, even while acknowledging that PR programs properly developed are assets.

Public relations, however, need not be an outrageously heavy item on your budget. A Hartford-area PR firm recently staged a reception for the opening of a new bookstore which cost exactly $41. It resulted in stories and art in the Hartford papers and much favorable word-of-mouth publicity. This isn't to say you can have an open house in your new foundry for $41 but it proves that competent and imaginative PR assistance needn't drain your bank account.

The bulk of the $41, incidentally, went for doughnuts and an applejack punch which pleased practically all of the guests just as much as Scotch and caviar sandwiches.

For the small industrial organization interested in public relations and with an occasional need for it the standard procedure in the past has been to take one of two courses. First, the company with a PR project on its hands can turn the whole thing over to its man-of-all-work, more often than not the fellow with the title of industrial relations manager or assistant to the president. Rarely, if ever, though, is this otherwise worthy chap a professional public relations man. In the usual course of events his project leaves something to be desired *as a public relations operation.* This, of course, is not necessarily a reflection on him; he just hasn't the "know-how."

When budgeting
PARKING LOT
expenditures, include
Jennite J-16®
The Double-the-Life pavement sealer. Specified by engineers, recommended by leading contractors.
Also ask for free booklet "Parking Techniques" showing suggested layouts.
COPELAND COMPANY, INC.
(exclusive distributors)
381 State St. North Haven, Conn.
Telephone CHestnut 8-4479

Let DooVal Save money for you on
METAL STAMPINGS

Our Years Of Experience In Engineering & Tooling Assure You Better Stampings And Faster Deliveries At Lower Unit Costs.

Let Us Work With You On Your Next Stamping Problem. Send Print Or Sample For Quotation.

Ask For Brochure

The DooVal Mfg., Inc.
40 ELM STREET
NAUGATUCK, CONN.

Boston Envelope Company, New England's largest "direct to you", envelope company offers you a FREE subscription to "MAIL FACTS". Each page is loaded with ideas, to help you save valuable time and money with your mailings.

So for the Facts about mailings and envelopes, get your FREE subscription of "MAIL FACTS", simply by attaching this ad to your letterhead. When you want envelopes plain or fancy, call us at FAirview 5-6700.

Attach Coupon to your Letterhead or Write:

Boston Envelope Co.
HIGH STREET • DEDHAM, MASS.
send MAIL FACTS to:

NAME_____
COMPANY_____
ADDRESS_____
CITY_____ STATE_____

Second, the company can go all out and hire a public relations consulting firm on an annual basis. Now it may well be that the PR firm will do an elegant job in setting up and publicizing the company's special event but it may also be that the small company will have no further need for public relations on a large scale for months to come. Thus, the monthly fee to the PR consultant becomes irksome, not to say onerous, and the company begins to feel it is being short-changed.

However, there is a third approach to the problem, an approach that small industrial companies should consider. That is the one-time, or "per-job," public relations effort by a professional PR consulting organization. In other words, if you plan an open house, or dedication of a new building or an anniversary celebration, you can turn to a PR firm which will handle the one special event and will not tie you down to a long-term contract.

Such a plan has many advantages. For one thing you know precisely what you are paying for and how much. But above and beyond that you are putting your activity in the hands of a group which can do much better than you can in publicizing your special event by way of newspapers, trade press, radio and TV.

In addition to staging and publicizing special events you can also get annual reports, releases for general news media and for trade journals, and other one-time written material such as speeches, letters to employes and the like done for you on a "per-job" schedule.

It is difficult to give a hard-and-fast estimate of what PR will cost on such a basis. You should not, however, gage the payment of the preparation of a news release, for example, on the time element. Nor should the time element be applied to *any* "per-job" PR project. A public relations organization in the Chicago area, by way of illustration, bills a client a straight $750 for preparing and running an open-house celebration. This is the agency's fee and does not include the actual cost of the celebration. The same agency charges $75 for the preparation and placement of a run-of-the-mill news release. The costs of artwork which may be needed to accompany the release are borne by the client.

The costs should be substantially less for you working with a Connecticut public relations agency. They should not, however, be figured on an hourly or daily basis but on a total job basis. Such costs are negotiable between client and agency.

The one-time, "per-job" method answers, it seems to many of us, the recurring statement of small industry that it cannot afford public relations programming. It gives you professional talent *when you need it* but does not tie you down to a continuing monthly fee during fallow times when you are *living* your public relations every day without benefit of costly advice.

Norris W. Ford Retires

(Continued from page 14)

men with the exception of informal talks to local manufacturers associations and chambers of commerce within the state. In 1948 he was one of the chief speakers at an Employer-Employee Relations Conference, which brought him acclaim as an "outstanding exponent of sound employer-employee relations activities as a major project in the continuing program of state manufacturers associations." He also had the honor in 1953 of being the only representative of MAC ever to be invited to be the featured speaker at the annual meeting of the Connecticut Federation of Women's Clubs.

During his leadership from February 1945 through 1959, the Association's membership grew from 550 members to a total of 1875 members. Although the key man Group Life Insurance program was initiated in 1944, it has grown from less than 100 member participants to more than 1,000, during his term in office.

In addition, four other forms of low cost insurance have been made available to members during his regime. They are: Group Sickness and Accident Insurance, Group Hospitalization, Group Major Medical and Travel-Accident Insurance, all of which have had a healthy growth, both in volume and in the number of participating companies.

Association Officers and New Directors

(Continued from page 11)

Club, and the New Britain General Hospital, all of New Britain; Rowland Products, Inc., Kensington and Allen-Rogers Corp., Laconia, New Hampshire.

He is also treasurer and director of Family Service Association, New Britain, and is a member of Off Soundings Club, Essex Yacht Club, Cruising Club of America and New Britain Club.

LYMAN C. THUNFORS, vice president, Jenkins Brothers, Bridgeport, who was appointed at the June 9, 1959 meeting of the Board of Di-

rectors to serve out the remainder of the term of George L. Todd, ending December 31, 1959, and who was re-elected at the annual meeting to represent Fairfield County, received his elementary and secondary education in the Muskegon, Michigan schools, later attending Detroit School of Technology and night school in conjunction with his apprentice training as a patternmaker.

Mr. Thunfors started his work career at Lakey Foundry and Machine Company where he served as a patternmaker and later as general supervisor from 1922 to 1930.

From 1930 to 1945 he was employed by the Caterpillar Tractor Co. as supervisor, assistant foundry manager and chairman of the Labor Management Committee during the war years, participating in all training programs.

Following the war, from 1945 to 1949, he served as vice president and later as executive vice president of Reynolds Metal Co., Richmond Radiator Division, Uniontown, Pa. In 1949 he became vice president of Rensselaer Valve Co., Troy, New York, a subsidiary of Neptune Meter Co., and later was elected president and board member. Mr. Thunfors continued in this dual capacity until the plant was sold in 1955, after which he joined the Jenkins Brothers of Bridgeport as vice president and director, his present position.

He is a director of Junior Achievement of Western Connecticut, Inc., executive board member of the Manufacturers Association of Bridgeport, a director of the Family Service Society of Bridgeport, Inc., and a member of the Greenfield Congregational Church.

CRAIG D. MUNSON, president, International Silver Company, Meriden, who was appointed Director-at-Large at the March 19th, 1958 meeting of the Board of Directors to serve the remainder of the term of Carlyle F. Barnes (previously elected vice president) ending December 31, 1959, and who was re-elected at the annual meeting, joined the International Silver Company in 1922, two years after receiving his B.A. Degree from Yale University.

Mr. Munson was named vice president and general sales manager in 1934 and elected president in 1955.

He is a director of International Silver Company, Gaylord Farm Sanatorium, Wallingford; Home Bank, Meriden; Sargent & Company, New Haven. He is also president of the Dime Savings Bank, a trustee of The Choate School, Wallingford, and a member of the advisory board of Liberty Mutual Insurance Company of Boston.

A lot of Lintels!

But this is only one section, in only one of our many big storage-yards located all across Connecticut — guaranteeing you quick and economical deliveries on the complete Plasticrete line of *quality* masonry units.

YOUR CURRENT INTEREST

in masonry materials may be for a complete new building, or simply for plant alteration or additions. Whichever it is, you can simplify your construction problem — and at the same time save time and money on it — by specifying *Plasticrete* on all your masonry units.

PLASTICRETE'S COMPLETE LINE

building bloc	reinforced lintels	Ramblestone & Roman Roughs
Spectra-Glaze bloc	brick—clay* & concrete	Hi-lite & Shadowal bloc
Dox floor & roof plank	chimney bloc & caps	Grille bloc
channel plank	manhole & catchbasin bloc	Dur-O-wal reinforcing

* *made by the STILES CORPORATION, Plasticrete's clay products subsidiary*

Plasticrete

CORPORATION

New England's largest manufacturer of masonry materials
24-hour laboratory controlled

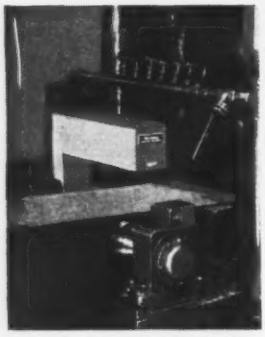
•

PLANTS IN 5 CONNECTICUT CITIES:

1883 Dixwell Ave.	25 Olds Place	Railroad Ave.	So. Leonard St. Ext.	1223 Main St.
HAMDEN	HARTFORD	NORTH HAVEN	WATERBURY	WILLIMANTIC
ATwater 8-1641	CHapel 9-6515	CEdar 9-1621	PLaza 5-2259	HArrison 3-7249

How DSC *Accutronic** STRIP helps you tighten your control over stamping and roll-forming job costs

ONE OF DCS'S 3 AccuRay® CONTROLLED 4-HI'S.



THE ELECTRONIC GAUGE

THE THICKNESS RECORDER

PICTURED ABOVE ARE TYPICAL DSC "TOOLS" FOR PRODUCING DSC SPECIALIZED STRIP

AccuRay® is the registered trade-mark of Industrial Nucleonics Corporation, Columbus, Ohio

DSC Accutronic* STRIP stocked by:
Ward Steel Company,
87 Rindge Avenue Extension, Cambridge 40, Mass.
Phone UNiversity 4-2460.

Rolled-in user benefits

DSC Accutronic* STRIP lets you run your job steadily and at top speed. You get a bigger yield per man-hour and per dollar of material cost. Your tools and dies stand up longer per grind. Your finishing costs are reduced and you complete your assemblies faster, surer. RESULTS—you strengthen your manufacturing margin and your competitive position, too.

Typical advantages of DSC STRIP

LEVEL GAUGE—within standard or restricted thickness tolerances (electronically controlled as rolled)

EVEN TEMPER—within your specified Rockwell range (a property accompanying level gauge)

SATINIZED FINISH—shaded to match your specific job requirements.

DEEP-ROLLED RBF BRIGHT—for chrome plating (the sure-working steel with eye-appeal)

The DSC approach

On new business our first step is to get all the facts of the job including your operating procedures (unless classified). We also like our operating people to meet yours . . . at your pleasure, of course. That helps iron out problems previously experienced. Regular follow-up makes sure that all's well with your job.

Deliveries

are still touch-and-go as an aftermath of the industry strike (not ours). While we're catching up, we'll welcome your inquiries and supply any information you desire regarding DSC products and services. Please call your nearest DSC Customer "Rep" or write direct: Detroit Steel Corporation, Box 1789, New Haven 7, Connecticut.

Performance Proved DSC®

DETROIT STEEL

Flat Rolled and Wire Products

DSC PRODUCTS: Coke . . . . Coal Chemicals . . . . Pig Iron
Basic Open Hearth Steel Ingots, Blooms, Slabs, Billets, Rods
HR and CR Sheet and Strip . . . . . Flat CR Spring Steel
Mfrs.' and H.C. Specialty Wire . . . . . Welded Wire Fabric

*A DSC TRADE-MARK descriptive of all DSC Cold Rolled Sheet and Strip steels

EASTERN STRIP DIVISION
Box 1789—New Haven 7, Conn.

EASTERN DISTRICT CUSTOMER "REP" OFFICES
Hamden, Conn., 2061 State St., STate 7-5781
New York 19, N.Y., 250 W. 57th St., COlumbus 5-4870
Worcester 5, Mass., 600 Lincoln St., Phone 5-8686

COPYRIGHT DETROIT STEEL CORPORATION 1960

With Our Advertisers And Their Agencies

♦ SCIENTISTS and engineers engaged in defense programs can now look forward to greater outlet for their creative talents. The Business Incubation Laboratory, recently organized by a firm of management and marketing consultants, Wirth Management Company, Wilton, Connecticut, offers a new service to provide marketing management for the commercial development of new product ideas. The marketing service is being offered defense industries and manufacturers employing large numbers of technical personnel likely to develop valuable ideas for commercial products as by-products of their brainpower.

The new activity serves as a "nursery for new products" providing a complete marketing management service to handle a product from the idea stage on through to commercial success. Facilities are available for commercial engineering, styling, product design, market research, sales promotion, application engineering and cost reduction control. Patent work is handled through specialized counsel. Pilot manufacturing and assembly will be handled where required.

The incubation laboratory's staff functions as product managers assuming complete management responsibility.

The new service was conceived by John C. J. Wirth who has an engineering, sales, legal and financial background and is the head of the parent company, Wirth Management Company, management engineers and marketing consultants. Through his firm's work in the field of acquisitions and mergers he noted that many manufacturers are hungrily seeking acquisitions but lack the interest or specialized experience to tackle new inventions. On the other hand, some of his firm's clients in defense activity have demonstrated their prolific talent to create the need for translating the cryptic technical jargon of a scientific personnel into actual commercial marketing results and presenting straightforward marketing and financial language understood by business managers and investment groups seeking diversification. In 1958, Mr. Wirth's company conducted a plant financing study for the Connecticut Development Commission which pointed up the ideal conditions prevailing in Connecticut for the incubation of new industries.

Late in 1958 Wirth purchased a colonial styled office building in Wilton, Conn., to house the Business Incubation Laboratory and has been renovating the premises to provide for model shop, drafting room, conference rooms and sales offices for the firm's expanding staff of marketing specialists. Although just getting underway, the laboratory is already buzzing with fascinating new products developed originally as the by-products of government sponsored research and development.

One electro-mechanical product originally designed as a precision computer component, and quite costly, is under study from a cost reduction standpoint to prepare it for broad commercial application as an indexing mechanism. In this case a market study indicated favorable marketing possibilities with cost reduction and some redesign. Another high grade scientific device developed in collaboration with personnel of the Bureau of Standards is undergoing a feasibility and market study for a Philadelphia investment group for entry into the growing market for leased equipment in the medical field. A third product, a steel fastening device, is going through the pre-production tooling stage to determine its market acceptance as a low cost substitute for structural lumber in building construction.

Learning of the service, inventors have been presenting a variety of interesting ideas but thus far the marketing service has been made available only to manufacturers and private investment groups able to incur the cost of market development.

Wirth notes that a number of defense contractors are eyeing the commercial development service as one which might help them generate additional working capital to finance expanding operations. Time will be required, however, before corporation treasurers will be able to project their cash flow requirements against the influx of capital derived from marketing the byproducts of their technical brainpower.

A folder titled, "Market Your Golden Goose Eggs" is available without cost or obligation by writing: Business Incubation Laboratory, Wirth Building, Wilton, Conn.

♦ THE Connecticut Air Conditioning Company, of which The George Ellis Company, New Haven is a subsidiary, was represented at a three-day Sales Meeting, held recently at the headquarters of Carrier Corporation, New York, by Stanley S. Bronski, president; Mrs. George Ellis, secretary-treasurer; A. A. Weiss, sales manager; and George Iacucci, assistant sales manager. About 450 distributor personnel from all over the country saw Carrier's new line of air conditioning equipment for 1960 and visited Carrier's enlarged manufacturing, warehousing, research and development facilities.

One of the highlights of the meet-

WATER!

CLEAN CLEAR COLD

GOOD FOR MAN, CROPS AND INDUSTRY

400 G.P.M. FROM A DEEP ROCK WELL

Certain areas of Connecticut are blessed with wonderful underground supplies of good water. The Church Company's many years of experience and improved methods of drilling and development are making these large supplies of water available—this applies to both rock and gravel formations.

THE STEPHEN B. CHURCH CO. SEYMOUR, CONN.

Tel.—Tuxedo 8-2132

ROCK WELLS—GRAVEL WELLS—PUMPING EQUIPMENT

SPECIALISTS IN LARGE WATER SUPPLIES

ECONOMY and PRECISION in POWDERED METAL PARTS by NORWALK

QUALITY CONTROL from blueprint to finished machine part. Specified strengths and tolerances are maintained from the first part to the millionth.

ECONOMY. Mass production brings the unit cost down for important savings.

SERVICE. Whether delivery requirements are routine or "emergency," we have the flexibility to meet your schedules.

DESIGN. Our Design Engineers employ powdered metallurgy at its maximum potential: to produce precision parts that do the job . . . with important economies in fabrication.

Submit your metal parts problems to us for study and suggestions without obligation.

FREE

Write for information folder, "Converting Powdered Metal into Machine Parts".

NORWALK POWDERED METALS INC.

8 Muller Park, Norwalk, Conn.

ing was an address by Carrier's Board Chairman, Cloud Wampler, who reviewed the company's progress during the 1950's and outlined its plans for further expansion. About $40 million has been budgeted for expanded production, warehousing and shipping, and for electronic date processing. This money will also be used for marketing services and includes a figure of almost $6 million for further expansion of Carrier's famous research and development laboratories.

To realize full benefit from the improved production and shipping facilities Carrier Corporation has installed an elaborate electronic data processing center of which just one of the benefits achieved is a saving of three days in processing an order. Thus Carrier, which already holds the greatest number of air conditioning patents in the industry, is prepared to pace the anticipated industry and economy growth of the '60s.

Mr. Bronski, president of the Connecticut Air Conditioning Company, stated that his company, which distributes the complete line of Carrier air conditioning in most of Connecticut through about 75 franchised dealers, in turn expects to increase its own volume thanks to its new, enlarged office and warehouse building and to the addition of new dealers.

Making Employee Surveys Work

(Continued from page 15)

vested in the further development of the business and an improved operating picture. It can be helpful in other areas, too. An improved employee climate results in smoother operations all around. Production increases, scrap and rework are reduced, quality improves, employee problems are minimized—and the attention of the management group can be concentrated on constructive subjects. This is the optimum, but it is attainable.

Skilled Personnel Man Important to Success

Fortunately for industry the generation of personnel men who were given their jobs because they had failed elsewhere in the business, or could no longer keep up the pace as shop foremen, is petering out. Management has come to recognize the vital importance of the industrial relations man to the success of the business. Selection has been more careful, just as the men have been more careful in preparing themselves for the jobs.

As a natural sequence, industrial relations people have become more alert to the overall aims of management, and of the definition of their particular duties as staff members—not as empire builders in their own bailiwicks. They use modern tools such as surveys to find the facts.

This enlightened attitude makes it possible for a company to avoid many pitfalls occasioned by industry's counterparts of political hacks in jobs once regarded as so routine that anyone could do them. This attitude has been costly for many years to countless business and service organizations, just as it has been, and still is in political entities throughout the country. At the same time, the history of American business contains many pages about organizations which recognized the importance of this function early, and as a result have enjoyed most favorable employee relations for many years.

So, it is important that employers look first to their own staffs and operating management, and see where special fact-finding operations can help.

Management Attitude Important

The attitude of management toward the survey is important, too. Many divisional heads become extremely subjective as they find that the results clash with some of the concepts they have held dear for most of their business lives. The survey results must be approached with open minds, but not so open that the facts pass through without leaving any impression.

Management must steel itself against considering the information to be critical of them personally. They must determine beforehand that they regard it objectively, and that by neither direct action nor implication will there be any single or group reprisals because of what employees have said in the survey.

It is most important that operating management people participate actively in the company's corrective measures. This means they should take an active part, insofar as the size and locations of the company permit, in actual discussions with employees concerning results and plans. If the top man cannot be on hand because he is appearing somewhere else, the next highest ranking man should be there. The initial report should never be delegated down the line until it finally reaches someone who has no one else to whom he can pass the buck.

Finally, the follow-through should be thorough and continue over a long period of time. One very successful company is still getting full value from its survey after more than two years. Why? Because they believe it, and they use it to improve their operations.

Accounting Hints

Contributed by

The Hartford Chapter National Association of Accountants

The Accountant and Communication

By WILBUR D. EMMONS, Ass't Divisional Auditor
P&W Aircraft Division, United Aircraft Corp.

♦ IT may seem incongruous at first to write about communication in a column entitled "Accounting Hints", but actually the art of communication, whether it be by figures or words, written or oral, is one constantly being studied and developed by the successful managerial accountant.

The ultimate aim of the accountant is to communicate information—to present financial statements and reports setting forth the effects, either actual or forecast, of operating a business. Such information is generally numerical in nature, and accountants who are current in their professional reading know that efforts are being made by the American Institute of Certified Public Accountants, the National Association of Accountants and other professional organizations to improve the methods of presenting data in a more readable and clearly understandable form for management, stockholders, employees, government agencies and the interested public. But frequently these numerical presentations are inadequate and must be supplemented by footnotes, longer explanatory comments, or lengthy treatises in those cases where historical facts or extraordinary situations exist to cause the condition set forth. To properly and convincingly explain the figures is as much the responsibility of the accountant as compiling them in the first place, and the accountant who concentrates on financial presentation at the expense of his speaking or writing technique is failing in his total development.

Equal in importance to the clarity of reports for management or for publication is the daily communication between management and employee. That is the level where communication is likely to become sloppy, often resulting in misinformation or misunderstanding. Adequate and logical communication, is as important in the efficient operation of an accounting department as in any other department in a business. Poor communication may be due to the pressure of time or just plain carelessness, but, whatever the cause, the departmental operating budget may be overrun because somebody's time has had to be spent in "reading between the lines" or going back to the speaker or author for information that should have been included in the original contact. Repetitions of this condition have their effect on employee morale as well. The interdependence of good communication and employee job satisfaction is not generally realized.

In considering the characteristics of good communication, we must first give thought to what we are attempting to accomplish. Are we informing or requesting? Do we want to persuade or influence others, or do we want to draw out opinions or suggestions from those addressed? In any case, the quality of our approach is more important than the quantity. Accuracy, brevity, clarity—the ABC's of good communication—are qualities which will help us to gain and hold the attention of those addressed. They are the qualities you will find emphasized in employee training courses offered by many firms on the techniques of good writing or speaking. Variations of these courses are available to all levels of employment from the shop apprentice to the graduate research engineer, from the accounting clerk to the controller, because industry has found that the majority of employees find it difficult to explain a condition or present an idea. An employee may have information or a suggestion potentially of great benefit to his employer, but both employer and employee lose if he is unable to adequately present his case. Accountants are no more capable in this respect than other groups. They are not salesmen, probably because much of their time is spent in recording past events instead of planning the future. But, whatever the reason, accountants, in general, need to develop communication with a purpose, stated accurately, briefly and clearly.

Having made a decision on the purpose of our communication, we must decide to whom our efforts are to be addressed so that we not only attain our main objective expeditiously, but also keep other interested individuals or groups informed of needs, progress or accomplishments. This latter, corollary objective is often overlooked,

MORRISSEY & CHENEY

Insurance

GERARD MORRISSEY
BENJAMIN CHENEY
E. LEONARD CLARK

•

INSURANCE CONTROL
FOR
INDUSTRIAL AND COMMERCIAL
ACCOUNTS

•

9 LEWIS STREET, HARTFORD, CONN.

ROBERT W. PAGE

. . . A Professional Insurance Counsellor

No Insurance Sold

—FEE BASIS ONLY

A specialist for firms with no salaried insurance manager.

Booklet available upon request.

P.O. Box 55
Needham 92, Mass.
Hillcrest 4-4448

SAVE $40 . . .

On every thousand shipments by parcel post or express with

CURTIS ENVELABELS

- Enclose invoice in Envelabel and stick on carton.
- Send shipment at regular postage or express rates.
- Invoice goes POSTAGE FREE.

Write for samples

CURTIS 1000 INC.

150 Vanderbilt Avenue
West Hartford 10, Conn.

particularly in verbal instructions or requests, by circumventing the supervisor of the individual addressed. That procedure may be a way to get prompt results, but it is not good morale-building action. The supervisor is likely to resent such tactics, feeling that any instruction or request should be directed through him so that he always knows what is going on in his department or group. Furthermore, it is not good policy, since the supervisor may have answers readily available whereas the lower echelon employee may have to waste hours digging out the same information.

Next, we must give thought to the medium by which we can best achieve our desired results. Should it be oral or written? If oral, we may decide that a person to person discussion or a group conference is the desirable method, since a verbal exchange of ideas will not only be faster in arriving at an understanding but also produce questions or reactions we never could have anticipated. If our effort is to be written, should it be a simple letter, should it be a longer report including some background or historical information which will be helpful to the reader in understanding the problem or arriving at a conclusion, or should it take the form of a schedule or graphical analysis? Even though "a picture is worth a thousand words," graphs are not as extensively used as they should be. In addition to the present status of the business, trends and correlations can be charted when using this medium to give management a picture that would truly take a thousand words to describe.

Finally, we must give serious attention to what information is to comprise our advice or instruction. It must be adequate if the communication is merely informative, or must include sufficient data to provoke timely response if action is required. In this day and age, special security regulations, which frequently apply in the case of government contracts, also might influence the content of our communication. When a response is expected we should not short-cut our request. Those of us who have worked on programming an accounting operation for an electronic data processing machine have been amazed at the step by step detail required to assure the production of adequate reports in the form at the time required. Fortunately, we don't have to be so detailed in our instructions to human beings. The human memory capacity and speed fall far short of the machine, but man has the capacity to think and create, and this ability allows him to supply, within limits, missing details. The ideal communication, however, does not impose this burden.

Communication is the act of making oneself understood; an expression of thought or opinion. Effective communication is one means through which management becomes aware of the nature and potentialties of the work force, what courses of action are available in making decisions, and how the organization may be profitably directed. Informed management is under no illusions as to the effects of inadequate communication on morale and productivity.

Questions as to what information should go out, how much, to whom, in what form, who should send it, what further information should be coming in, how to obtain it and be sure of its accuracy, how to achieve better timing —all these present problems in administration and organization, the solution of which requires high levels of competence. Words are powerful; skill must be exercised in their use.

Nowhere will you find more "Know How" than at SUBURBAN PROPANE GAS SERVICE

When you need propane (LP) gas service for industrial uses you also need ALL THE ANSWERS concerning the many rules and regulations governing propane installations. You need information about an efficient and dependable gas installation designed to do your specific job.

You get all of this, and more, when you consult a Suburban Propane Gas Service industrial representative. His "KNOW HOW" has been acquired through intensive training and long experience in serving a wide variety of industries. His advice is FREE and you may be sure that the service he represents . . . Suburban Propane Gas Service . . . is efficient, dependable and economical.

For complete details call your nearest Suburban Propane Gas Service center.

SUBURBAN PROPANE GAS CORPORATION

Serving Connecticut from:
Derby, Conn.—REgent 4-2503
Windsor, Conn.—MUrdock 8-3623
Millerton, N. Y.—Millerton 1

Propane Suburban Gas Service

Niantic, Conn.—PErshing 9-5418
Mt. Kisco, N. Y.—Mt. Kisco 6-5174
Coventry, R. I.—EXpress 7-3311

Over *Thirty* Years of Dependable Service

Business Tips

Measuring Investment Performance

By A. D. GREEF, Associate Professor of Finance
Business Administration Department
The University of Connecticut

♦ MUTUAL investment funds have been doing a thriving business in this country in recent years. In investment companies of this type it is estimated that Americans have recently been placing as much as $6 out of every $100 saved, or a total of $125 million every month. It is reported also that the total amount invested in mutual funds has grown within the last five years from about $6 billion to nearly $15 billion.

The impressive growth in the total assets of the mutual funds has been accompanied by a substantial increase in the number of investment companies of this type. It was recently reported that as of June 30, 1959 there were 261 of these funds. Besides these mutuals (called "open-end" because most of them are constantly selling new and redeeming old shares), there are about 30 "closed-end" funds which are listed on some stock exchanges. Moreover, new mutuals are being organized every year. There are many different types of funds and different companies have different investment objectives. Hence the investor has a very large number of investment companies to choose from.

If he elects to invest in a mutual fund, rather than a closed-end company, he can take his pick of six major classes of open-end companies. These funds are diversified common stock funds, including those following unrestricted investment policies and those specializing in growth stocks; common stock funds specializing in particular industries; balanced funds; income funds; bond and preferred stock funds; and funds specializing in Canadian and international securities.

Suppose the investor is a business man who has decided to select a diversified common stock fund with unrestricted investment policies. He would now have more than 50 funds of this type to choose from. If an experienced investor, he will know that the performance of different investment companies has differed considerably in the past and may be expected to continue to do so in the future. He will also know that, for best results, he should select a fund whose management is able and experienced. He should therefore be interested in checking the comparative performance records of any funds whose shares he is considering as an investment.

A number of different methods for appraising such records have been developed. A summary of three of the methods which may be used for measuring the performance of diversified common stock mutuals follows.

The first is that used by FORBES MAGAZINE in developing its annual mutual fund ratings. The latest of these ratings shows:

(1) How much $100 invested in each of a large number of funds on Dec. 31, 1949 would have grown to by June 30, 1959—i. e., during a 9½ year "bull market" period.

(2) How much $100 so invested on July 1, 1957 would have declined during the 4-month period of falling stock prices ended on Oct. 25, 1957.

(3) How much $100 similarly invested on Oct. 25, 1957 would have grown to by June 30, 1959—a 20-month period of recovering stock prices.

(4) Total dividends from regular investment income (but not from capital gains distributions) which would have been received during the latest year for each $100 so invested at the beginning of that year.

(5) How the performance of each of the funds, based on these four tests, compares with that of the FORBES average of 10 top common stock funds and the Standard and Poor's 500 stock average.

The second method is used to compare the records of different funds as to net asset value growth and dividend payments over a period of several years. Suppose the 5-year period ended Sept. 30, 1959 is chosen. This method would then show, for each mutual fund compared:

(1) Net asset value per share, 9/30/54

(2) Net asset value per share, 9/30/59

Are

YOU

using

INFRARED ENERGY

in your plant ?

IF NOT, it will pay you to learn how to use this modern tool in your business . . . to speed production, improve product quality, save space and boost profits.

Infrared is already in common use for:

Agricultural products
Ceramics processing
Construction heating
Electrical processing
Food processing
Foundries
Glass processing
Leather drying
Paper converting
Printing & Engraving
Photo print drying
Plastics & resins
Metal processing
Moisture control
Rotogravure
Silk screen drying
Textile processing
and
Area Heating

IF YOU ARE, you should keep up-to-date on recent developments in infrared technique, simply by phoning New Canaan WO 6-0874, or

MAIL COUPON TODAY

To: INFRA RED HEATING
Box 661,
New Canaan, Conn.

Please send more data on Infrared energy for

☐ AREA HEATING
☐ PROCESS HEATING

Name .....

Title .....

Company .....

Address .....

City ..... Zone ... State .....

(3) Increase in net asset value
(4) Percentage increase
(5) Dividends from income, 9/30/54—9/30/59
(6) Percentage of these dividends to net asset value as of 9/30/54
(7) Capital gains payments, 9/30/54—9/30/59
(8) Percentage of these payments to net asset value as of 9/30/54
(9) Total of items (3), (5), and (7)
(10) Percentage of this total to net asset value of 9/30/54

The last item, (10), sums up each fund's performance during the period selected.

The third method, explained in Arther Wiesenberger and Company's, *Investment Companies,* is used to measure mutual fund performance for a single year. If the year ended Sept. 30, 1959 were selected, this method would show, for each fund, the following:

Per-share net asset value, 9/30/59
Year's dividends from investment income
Year's distributions from security profits
Sum of these 3 items gives total adjusted value, 9/30/59
Total adjusted value, 9/30/59 divided by net asset value, 9/30/58 equals performance relative (e.g., 119%)
Performance record (e.g., 19% gain)

The last two items, the performance relative and the performance record, are the most important, since they sum up performance results for each fund.

Performance tests such as the three methods previously summarized are not the only means of sizing up a mutual fund's management, and the investor should not attach undue importance to any one year's performance results. But if any common stock fund can score in these tests pretty consistently among the top five or six mutuals in its class it will unquestionably be demonstrating management ability of a high order. If its shares are traded over the counter they are likely to command a premium over their net asset value. Such a fund should certainly be able to qualify as a "business man's risk" investment.

Awards Given For Top "Business Tips" Articles

♦ FOR the third consecutive year three members of the Business Administration Department of the University of Connecticut were given money awards for contributing the three articles considered best by a panel of judges out of the twelve published in the Business Tips department of CONNECTICUT INDUSTRY beginning in June 1958 and ending May 1959.

The prizes were awarded in the office of Dean Laurence J. Ackerman on November 9, 1959 by Leslie M. Bingham, editor of CI and secretary of the Association, from funds contributed largely by manufacturing donors who

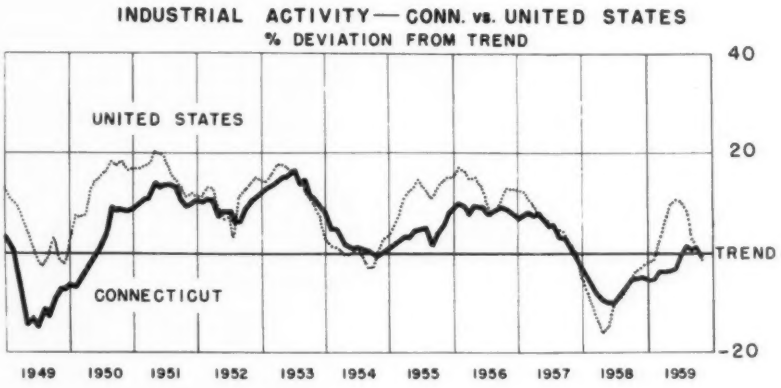
(Continued on page 60)

Editor Leslie M. Bingham presenting $100 check to Thomas Lea Davidson, first prize winner, while second prize winner, A. D. Joseph Emerzian, left, and third prize winner, Edward A. Jordan, look on.

Business Pattern

A comprehensive summary of the ups and downs of industrial activity in Connecticut for the thirty day period ending on the 15th day of the second previous month.

Business Down in October



♦ The steel strike affected Connecticut business more in October than it had in earlier months. The Index of Industrial Activity dropped 1.4 percentage points to —0.2%. Manufacturing employment, electric power sales, and construction employment declined. Average hours worked held level.

The spreading effect of steel shortages in October lowered the U.S. Index two percentage points to —1.0%.

Although the steel industry is operating again, normal deliveries will not be achieved until some time in the future. More cutbacks are to be expected before a sustained improvement can be counted on.

This will tend to dampen some of the business rise looked for in the fourth quarter. On the other hand it should strengthen the upward trend expected in 1960.

Employment

The number of people employed in manufacturing fell 50,000 from June 1957 to June 1958. There has since been an increase of 20,000. Employment in most major manufacturing sectors is still below the pre-recession level.

The two hardest hit industries are transportation equipment and machinery manufacturing. The latter has improved somewhat since mid-1958, but is still 16,000 under its pre-recession level. Transportation equipment has not improved and is now 12,500 below June 1957. Cutbacks in aircraft payrolls have been significantly greater than the expansion in submarine building employment.

Total non-manufacturing employment merely flattened out in the recession and is now rising again. The number of construction workers, however, did not follow this pattern. After dropping 6,000 from June 1957 to June 1958, employment continued to decline to June of this year but now seems to be on the rise.

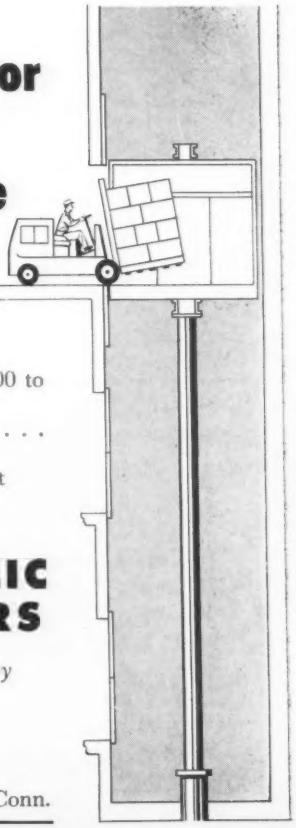
Consumer Prices

Inflation is one of the most serious problems facing the United States today. This problem of higher costs and prices also has been one of the basic factors in the countrywide steel dispute.

Since the beginning of 1956, the Consumer Price Index has risen almost 11 points to 126 in October. In the four years preceding 1956, it rose less than two points.

The cost of services such as rent, medical care and transportation has been going up substantially faster than the overall index. By comparison, the cost of food which was rising at a slower pace, has been in a moderately declining trend for over a year.

Most practical elevator for heavy-duty service



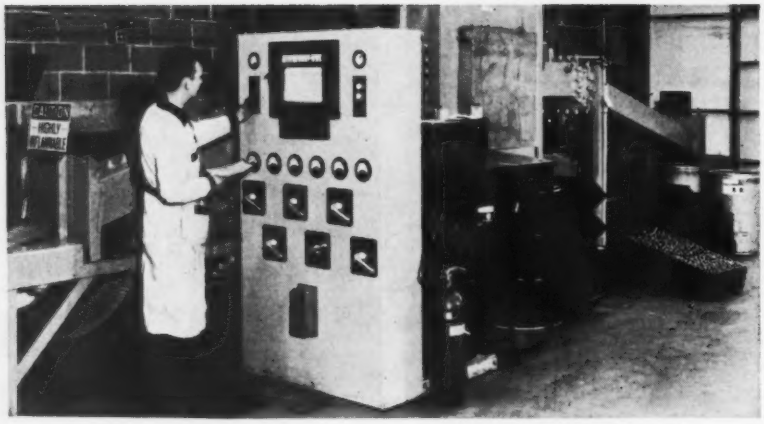
- Economical, dependable oil-hydraulic operation
- Ruggedly built for shock loading . . . 1000 to 100,000-lb. capacities
- Elevator supported by hydraulic system . . . no overhead machinery, no cables
- Adjustments made on central control unit
- Easily installed in new or old buildings
- Built by Rotary Lift Co.

Rotary® **OILDRAULIC ELEVATORS**

Call for data. Sold, installed, serviced by

Eastern Elevator Co., Inc.

133 Mill River St. New Haven, Conn.



INCLINED CONVEYOR FURNACE
New Heater

Get "Preferred Treatment" at CMT!

CMT gives you a better product at genuinely economical cost . . . with the right equipment . . . plus the skill and experience that gives top quality every time for every job.

Modern furnaces and instrumentation insure precision temperature and quality control for the widest ranges of tools and production parts. All material completely inspected before shipment.

• For full information on CMT "preferred" treatment, call or write today to:

CMT
Commercial Metal Treating, Inc.
89 Island Brook Avenue
Bridgeport, Conn.
phone FOrest 8-2545

B&W GASOLINE ENGINES
Lathrop
MARINE POWER AT ITS BEST
HIGHEST QUALITY
THROUGH SUPERIOR
MARINE ENGINEERING
Available from 30 hp to 155 hp

BURMEISTER & WAIN
AMERICAN CORPORATION
MYSTIC, CONN. — Phone: JEfferson 6-2637

This points up the significance of the labor factor in the price of things we buy. In the services category a much larger share of the price represents labor than is the case with food. With payroll costs continuing their upward push it appears that the overall price index will continue to inch higher.

Wages vs. Prices

How have Connecticut factory workers fared in the face of this creeping inflation?

Total wages fell during the recession because of reduced work schedules. As the work week increased, total wages improved rapidly. For October, they were 14% above January 1956. In the same period, the Consumer Price Index advanced only 9½%.

In terms of basic wages, which are computed on a constant 40 hour week and which indicate the pay people receive for their actual work time, the comparison is even better for workers. These wages have risen steadily and now stand 18% above January 1956.

In the national steel industry, basic wages have gone up even faster. In June, the last month of full steel production, they were 26% higher than at the beginning of 1956.

The wage figures we have been considering here do not include employer-paid fringe items which have been increasing faster than wages.

Exports and Imports

Rising prices in this country contribute to a reduction in exports and an increase in imports. As U.S. prices increase our foreign customers find it more economical to buy from other countries. Similarly, inflated prices here make lower priced foreign goods more attractive to purchasers in this country.

The sharp export rise in 1956 and 1957, reflects heavier oil shipments because of the Suez Canal crisis.

For the first nine months of this year, exports were 1.5% below the same period of 1958. Imports, which had been relatively stable for years, spurted recently and have averaged 20% above the corresponding 1958 level.

Federal officials are increasingly concerned about the narrowing gap between exports and imports and the inflation it reflects. This trend has brought into sharp focus the possibility of pricing ourselves out of world markets if inflation continues unchecked.

Spotlight on the Future

Contributed by National Association of Purchasing Agents
By Chester F. Ogden, Manager of Purchases
The Detroit Edison Company

General Business Conditions

Despite the remarkable recovery made by the steel mills in getting their equipment back into operation, the ill effects of the strike are currently being felt by almost all steel-using industries.

Further, the threat of another possible steel strike in January is creating enormous pressures to build up inventories to protect against the possibility of a new interruption. Unfortunately, most buyers believe that the 80-day period of production under the Taft-Hartley injunction will not allow for much inventory accumulation. Therefore, they expect the scramble for steel to continue until the contracts between the union and the producers are actually signed.

Both our production and new order figures point up the "braking" effect steel has had on our economy. Again, this month, there is an increase in the number of our members who say production for their company is down. Similarly, there is a decrease in the number who report higher production. Statistically, 27% state production is better, 48% the same, and 25% a reduction.

In telling of new orders, 28% report an increase, 42% no change, and 30% say their new orders are down. This is the first time since April, 1958, that more of our members tell of a poorer new order position than those who report improvement.

Commodity prices are generally steady. Some specific items have inched higher, while others have drifted lower. Over-all, the trend movement is just slightly up. Copper now looms as the next serious shortage item.

Employees who were laid off as a result of the steel strike are being called back to work. Our members believe that November will be the turning point in employment and, barring another interruption of steel production, that employment will improve in the months ahead.

There was some feeling that the effects of the steel strike would be reflected in lowered retail sales this Christmas time. So, for November, we asked Purchasing Executives to comment on this, based on their own company's sales forecasts and from the general business climate in their locality. In a five category rating, 17% predict sales at record heights, 58% say sales will be substantial, 23% report fairly good, and only 2% not so good. Not one Purchasng Executive thinks sales will be poor.

Over-all, there is an optimistic tone about business conditions in coming months—if we can avoid any further major crippling strikes.

Commodity Prices

Prices are remarkably steady in view of the many conflicting forces to which they are being subjected.

There are instances of increases, as in the case of copper, where supply has been interrupted by strikes. In other situations, such as some items of electrical equipment, keen competition has resulted in lower prices. Over-all, the movement has been just slightly upward.

Statistically, 36% of our members

(Continued on page 60)

PLASTIC INJECTION
MOLDING
From Idea to Finished Product

- Engineering
- Product Design
- Low Cost Trial Molds
- Small and Large Run Production
- Personal Service
- Experience

THE
ROGERS
MANUFACTURING CO.
Rockfall, Conn. Diamond 6-3451

Cold Customer?
Handle him with special asphaltum lined or foil lined shipper displays. They do the job for freezing and maintaining temperatures — "COLD OR HOT" — solid or liquid — maximum sales appeal. More than 39 years experience. CALL
JACK WITTSTEIN
BOX 1348 • 1044 CHAPEL ST.
NEW HAVEN 5, CONN.
MAin 4-5121

Clean Out
DEADWOOD
Conserve Valuable Space—Offer Us
OBSOLETE — SURPLUS
Corrugated Cartons, new and used—Skids—Jacks—Wirebound Wood Crates—Pallets—Tote Boxes—Wood Boxes—Bottles—Cans—Conveyors—Balers—Bags, Burlap, Paper. Salvage of any Kind.
We have many of the above listed items for sale
ACME SURPLUS CONTAINERS
539 Windsor St., Hartford • JA 2-3114

YALE & TOWNE
287th Quarterly Dividend
37½¢ a Share
Payable:
Jan. 2, 1960
Record date:
Dec. 10, 1959
Declared:
Nov. 24, 1959
Elmer F. Franz
Vice President and Treasurer

THE YALE & TOWNE MFG. CO.
Lock and Hardware Products since 1868
Materials Handling Equipment since 1875
Cash dividends paid every year since 1899

PRODUCTS AND SERVICES

THIS department, formerly listing only products made in Connecticut (from 1937 through 1959) is now available for listing not only products made in the state but also services available to industry through management, technical, research or other service organizations located in Connecticut.

Listing rate, $6.00 per listing for 12 monthly insertions, effective with the February 1960 issue. Listings are payable annually, in advance, or within 30 days after their first insertion.

Abrasives
Fuller Merriam Company The (Vitrified, Resinoid Bonded Grinding Wheels & Segments) West Haven

Absorbents
Nielsen & Sons Inc. John R (oil water and grease) South Windsor

Accounting Forms
Baker-Goodyear Co The Branford

Accounting Machines
Underwood Corporation Bridgeport

Adding Machines
Underwood Corporation Bridgeport

Adhesives
Polymer Industries Inc Springdale
Raybestos Division Raybestos-Manhattan Inc Bridgeport

Advertising Mats
Lockwood Sons Inc Wm H Hartford

Advertising Plates
Lockwood Sons Inc Wm H Hartford

Advertising Specialties
H C Cook Co The Ansonia

Air Compressors
Dunham-Bush, Inc. West Hartford
Spencer Turbine Co The Hartford

Air-Conditioning
Dunham-Bush Inc West Hartford
Norwalk Airconditioning Corp South Norwalk

Air Ducts
Wiremold Co The (Retractable) Hartford

Air Heaters—Direct Fired
Peabody Engineering Corporation Stamford

Air Impellers
The Torrington Manufacturing Co Torrington

Aircraft
Sikorsky Aircraft Division United Aircraft Corporation (helicopters) Bridgeport

Aircraft Accessories
Chandler Evans Div Pratt & Whitney Co Inc (Piston and Jet Engine Accessories—Carburetors, Fuel Controls, Afterburner Regulators, Pumps, Servomechanisms and Protek Plugs) West Hartford
Consolidated Controls Corp Bethel
Fenn Mfg Co The (Hardened and Ground Gear assemblies) Newington
Gabb Special Products Inc (filler caps—pressure fuel servicing systems) Windsor Locks
Hamilton Standard Div United Aircraft Corp (propellors and other aircraft equipment) Windsor Locks

Aircraft Engine Timing Tools
Gabb Special Products Inc Windsor Locks

Aircraft Engine Details
Hartford Machine Screw Co Div of Standard Screw Co Hartford
New Haven Trap Rock Co The Machine Products Div North Branford

Aircraft Engines
Lycoming Division Avco Canufacturing Corp Stratford
Pratt & Whitney Aircraft Div United Aircraft Corp (aircraft) East Hartford

Aircraft Fasteners
Bland Buner Co The Thread Products Div Hartford
Hartford Machine Screw Co Div of Standard Screw Co Hartford
Scovill Manufacturing Company (PANELOC Aircraft Fasteners) Waterbury

Aircraft Instruments
Gorn Electric Company Inc Stamford

Aircraft—Repair & Overhaul
Airport Department Pratt & Whitney Aircraft Division Rentschler Field East Hartford

Aircraft Studs and Bolts
Hartford Machine Screw Co Div of Standard Screw Co Hartford

Aircraft Test Equipment
United Manufacturing Co Division of The W L Maxson Corp Hamden

Alumilite Aluminum Sheets
Leed Co The H A Hamden

Aluminum Awnings
Norlee Aluminum Prod Corp Bloomfield

Aluminum Bronze Castings
Knapp Foundry Company Inc Guilford

Aluminum Castings
Eastern Malleable Iron Company The Naugatuck
Newton-New Haven Co West Haven

Aluminum Die Castings
Mt Vernon Die Casting Corporation Stamford
Stewart Die Casting Div. Stewart-Warner Corp. Bridgeport

Aluminum Extrusions
Bridgeport Brass Company Bridgeport

Aluminum Forgings
Bridgeport Brass Company Bridgeport
Consolidated Industries Inc West Cheshire
Scovill Manufacturing Company Waterbury

Aluminum Ingots
Lapides Metals Corp New Haven

Aluminum Sand Castings
Bridgeport Deoxidized Bronze Corp Bridgeport

Aluminum—Sheet and Rod
Scovill Manufacturing Company Waterbury

Aluminum—Sheets & Coils
United Smelting & Aluminum Co Inc New Haven

Aluminum Windows
Norlee Aluminum Prod Corp (combination and prime) Bloomfield

Ammunition
Winchester-Western Div Olin Mathieson Chemical Corp New Haven

Anodic Coating
Fenn Mfg Co The (Dow 17) Newington

Anodizing
Aluminum Finishing Co. Bridgeport
Leed Co The H A Hamden

Anodizing Equipment
Enthone Inc New Haven

Asbestos
Auburn Manufacturing Company The (gaskets, packings, wicks) Middletown

Asarcon Bronze
Derby Castings Company, The Seymour
Knapp Foundry Company Inc (bushing & bearing stock) Guilford

Assemblies—Small
Barnes Co The Wallace Div Associated Spring Corp Bristol
Greist Manufacturing Co The New Haven
Hartford Machine Screw Co Div of Standard Screw Co Hartford
Stanley Humason Inc Forestville
J H Sessions & Son Bristol

Audio-Visual Equipment
Victor Animatograph Corp a div of Kalart (16mm sound and silent projectors; 35mm filmstrip and sound slide film projectors) Plainville

Automatic Buffing & Polishing Machines
Harper Buffing Machine Company The East Hampton

Auto Cable Housing
Wiremold Company The Hartford

Automatic Assembly Machines
Sperry Products Inc Danbury

Automatic Control Instruments
Bristol Co The (temperature, pressure, flow, humidity, time) Waterbury

Automobiles—Children's
Powercar Company Mystic

Automotive Bodies
Metropolitan Body Company Bridgeport

Automotive Parts
Bridgeport Thermostat Div Robertshaw—Fulton Controls Co (automobile thermostats) Milford
Eis Manufacturing Co (Hydraulic and Mechanical) Middletown
Raybestos Division of Raybestos-Manhattan Inc (Brake Lining, Lined Brake Shoes, Clutch Facings, Automatic Transmission Parts, Fan Belts, Radiator Hose and Miscellaneous Rubber) Bridgeport
Terryville Mfg Co The (stampings for automotive parts) Terryville

Automotive & Service Station Equipment
Scovill Manufacturing Company (Canned Oil Dispensers) Waterbury

Automotive Tools
Eis Manufacturing Company Middletown

Bag Sealing Machines
Derby Sealers Inc Derby

Bakelite Moldings
Watertown Mfg Co The Watertown

Balls
Abbott Ball Co The (steel bearing and burnishing) Hartford
Hartford Steel Ball Co The (steel bearing and burnishing, brass, bronze, monel, stainless aluminum) Hartford
Kilian Steel Ball Corp The Hartford
New Departure Div of General Motors (steel and steel alloys) Bristol
Pioneer Steel Ball Company Inc (steel for bearings, burnishing, graining; also brass, bronze and stainless) Unionville
Superior Steel Ball Co Inc (steel bearings & burnishing material) New Britain

Banbury Mixers
Farrel-Birmingham Company Inc Ansonia

Barrels
Abbott Ball Co The (burnishing and tumbling) Hartford
Enthone Inc (tumbling) New Haven
Esbec Barrel Finishing Corp (burnishing & tumbling) Byram
Hartford-Steel Ball Co The (tumbling) Hartford
King Co Alfred B (tumbling and plating) North Haven

Baskets—Wire
Rolock Inc Fairfield

Bearings
Barden Corporation The (ball) Danbury
Fafnir Bearing Co (ball) New Britain
Marlin-Rockwell Corporation Plainville
New Departure Div of General Motors (ball) Bristol
Norma-Hoffman Bearings Corp (ball and roller) Stamford
Torrington Co The Torrington

Bellows Assemblies
Bridgeport Thermostat Div Robertshaw—Fulton Controls Co Milford

Bellows—Metallic
Bridgeport Thermostat Div Robertshaw—Fulton Controls Co Milford

Bells
Bevin Brothers Mfg Co East Hampton
N N Hill Brass Co The East Hampton

Belt Fasteners
Saling Manufacturing Company (patented self-aligning) Unionville

Belting
Hartford Belting Co Hartford
Russell Mfg Co (High Speed Endless, Laminated Rubber, Roll Stock all types) Middletown

Bends—Pipe or Tube
National Pipe Bending Co The New Haven

Bicycle Sundries
Torrington Co The Torrington

Blacking Salts for Metals
Enthone Inc New Haven
Mitchell-Bradford Chemical Co Milford

Black Oxide Finishing
Black Oxide Inc New Britain

Black Oxide Treatment
Bennett Metal Treating Co The Elmwood

Blades
Capewell Manufacturing Company Metal Saw Division (hack saw and band saw) Hartford

Blocks
Howard Company (cupola fire clay) New Haven

Blower—Centrifugal Type
Spencer Turbine Co., The Hartford

Blower Fans
Colonial Blower Company Plainville
Spencer Turbine Co The Hartford
(Advt.)

CONNECTICUT PRODUCTS AND SERVICES

Blower Systems
Colonial Blower Company — Plainville
Ripley Co — Middletown
Ventilating Supplies Inc — Plainville

Blower Wheels
Torrington Manufacturing Company The — Torrington

Blueprints and Photostats
Joseph Merritt & Co — Hartford

Boilers
Bigelow Co The — New Haven

Bolts and Nuts
Clark Brothers Bolt Co — Milldale
Hartford Machine Screw Company Div of Standard Screw Co — Hartford
Torrington Co The — Torrington

Boring Tools
Atrax Company The (solid carbide) — Newington

Bottles
Feldman Glass Co. The — New Haven

Box Board
Bird & Son Inc — New Britain
Continental Can Co., Boxboard and Folding Carton Division — Montville
Federal Paper Board Co Inc — Montville, New Haven & Versailles
Lydall & Foulds Paper Co The — Manchester
New Haven Board & Carton Co The — New Haven
Robertson Paper Box Co — Montville

Boxes
Bird & Son Inc (corrugated, solid fibre, cleated containers) — New Britain
Connecticut Container Corporation — New Haven
Continental Can Co., Fibre Drum and Corrugated Box Division — Portland
Merriam Mfg Co (steel cash, bond, security, fitted tool and tackle boxes) — Durham
Middletown Mfg Co (metal) — Middletown
Warner Bros Co The (Acetate, Paper, Acetate and Paper Combinations, Counter Display, Setup) — Bridgeport

Boxes and Crates
City Lumber Co of Bridgeport Inc The — Bridgeport

Boxes—Folding
Leshine Carton Co — Branford

Boxes—Metal
Durham Mfg Co. — Durham
Merriam Mfg Co (Bond and Security, Cash and Utility, Personal Files and Drawer Safes) — Durham
Scovill Manufacturing Company (aluminum, brass, bronze, copper-cosmetic, drug, hair pin, ointment, pill, powder, rouge, vanity) — Waterbury

Boxes—Paper—Folding
Atlantic Carton Corp — Norwich
Bridgeport Paper Box Co — Bridgeport
Carpenter-Hayes Paper Box Co Inc — East Hampton
Continental Can Co., Boxboard and Folding Carton Division — Montville
Curtis & Sons Inc S — Sandy Hook
Folding Cartons Incorporated (paper, folding) — Versailles
Mills Inc H J — Bristol
National Folding Box Co Div Federal Paper Board Co Inc (paper folding) — New Haven and Versailles
New Haven Board & Carton Co The — New Haven
Robertson Paper Box Co — Montville
Warner Bros Co The — Bridgeport

Boxes—Paper—Setup
Bridgeport Paper Box Co — Bridgeport
Heminway Corporation The — Waterbury
Mills Inc H J — Bristol
Strouse Adler Company The — New Haven
Warner Bros Co The — Bridgeport

Brake Cables
Eis Manufacturing Co — Middletown

Brake Linings
Raybestos Division of Raybestos-Manhattan Inc (Automotive and Industrial) — Bridgeport
Russell Mfg Co (all types, Fused Fabric, Durak, Wireback, Extruded) — Middletown

Brake Service Parts
Eis Manufacturing Co — Middletown

Brass & Bronze
American Brass Co The (sheet, wire, rods, tubes) — Waterbury
Bridgeport Rolling Mills Company (coil, sheet, strip) — Bridgeport
Bristol Brass Corp The (sheet, wire, rods) — Bristol
Chase Brass & Copper Co — Waterbury
Miller Company The (phosphor bronze and brass in sheets, strips, rolls) — Meriden
Plume & Atwood Mfg Co The (sheet, wire, rod) — Thomaston
Scovill Manufacturing Company — Waterbury
Tinsheet Metals Co The (sheets and rolls) — Waterbury
Western Brass Mills Div of Olin Mathieson Chemical Corp (sheet, strip) — New Haven

Brass & Bronze Ingot Metal
Mitchell Smelting & Refining Co Inc — Botsford
Plume & Atwood Mfg Co The — Thomaston
Whipple and Choate Company The — Bridgeport

Brass, Bronze, Aluminum Castings
Derby Castings Company, The — Seymour
Victors Brass Foundry Inc — Guilford

Brass Goods
American Brass Company The — Waterbury
Plume & Atwood Mfg Co The (to order) — Waterbury
Rostand Mfg Co. The (Ecclesiastical Brass Wares) — Milford
Scovill Manufacturing Company (to order) — Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp — New Haven

Brass Mill Products
American Brass Company The — Waterbury
Chase Brass & Copper Co — Waterbury
Plume & Atwood Mfg Co The — Thomaston
Scovill Manufacturing Company — Waterbury
Seymour Manufacturing Co. The — Seymour
Western Brass Mills Div Olin Mathieson Chemical Corp — New Haven

Brick-Building
Donnelly Brick Co The — New Britain
Stiles Corp subsidiary of Plasticrete Corp — North Haven

Bricks—Fire
Howard Company — New Haven
Mullite Works Refractories Div H. K. Porter Co Inc — Shelton

Bright Wire Goods
Sargent & Company (Screw Eyes, Screw Hooks, Cup Hooks, Hooks and Eyes, C H Hooks) — New Haven

Broaching
Hartford Special Machinery Co The — Hartford

Bronze & Aluminum Castings
Knapp Foundry Company Inc (rough or machined) — Guilford

Bronze Sand Castings
Bridgeport Deoxidized Bronze Corp — Bridgeport

Brooms—Brushes
Fuller Brush Co The — Hartford

Buckles
B Schwanda & Sons — Staffordville
Hawie Mfg Co The — Bridgeport
North & Judd Manufacturing Co. — New Britain
Patent Button Co The — Waterbury
Risdon Manufacturing Co John M. Russell Div — Naugatuck

Buffing & Polishing Compositions
Apothecaries Hall Company Division — Waterbury
The Hubbard Hall Chemical Company — Waterbury
Lea Mfg Co — Waterbury

Building Materials
City Lumber Co of Bridgeport Inc — Bridgeport

Burners
Plume & Atwood Mfg Co The (kerosene oil lighting) — Thomaston

Burners—Automatic
Peabody Engineering Corporation — Stamford

Burners—Coal and Oil
Peabody Engineering Corporation (Combined) — Stamford

Burners—Gas
Peabody Engineering Corporation (Blast Furnace) — Stamford

Burners—Gas and Oil
Peabody Engineering Corporation (Combined) — Stamford

Burners—Refinery
Peabody Engineering Corporation (For Gas and Oil) — Stamford

Burnishing
Abbott Ball Co The (Burnishing Barrels and Burnishing Media) — Hartford
Pioneer Steel Ball Company Inc (balls, cones, other metallic shapes) — Unionville

Burs
Atrax Company The (carbide) — Newington
Pratt & Whitney Co Inc (carbide and HSS) — West Hartford

Business Forms
Connecticut Manifold Forms Co. The — West Hartford

Buttons
B Schwanda & Sons — Staffordville
Frank Parizek Manufacturing Co The — Putnam
Patent Button Co The — Waterbury
Scovill Manufacturing Company (Uniform and Tack Fasteners) — Waterbury
Waterbury Companies Inc (Uniform and Fancy Dress) — Waterbury

Cabinet Work
Hartford Builders Finish Co — Hartford

Cable—Asbestos Insulated
Rockbestos Products Corp — New Haven

Cable-Interlocked Armor
General Electric Company — Bridgeport

Cable—Nonmetallic Sheathed
General Electric Company — Bridgeport

Cable—Service Entrance
General Electric Company — Bridgeport

Cages
Andrew B. Hendryx Co The (bird and animal) — New Haven

Cams
American Cam Company Inc — Hartford
Hartford Special Machinery Co The — Hartford
Rowbottom Machine Company Inc — Waterbury

Cams, 2 Dimensional
Mallory Industries, Inc — West Hartford
Parker-Hartford Corporation — Hartford

Cams, 3 Dimensional
Mallory Industries, Inc — West Hartford
Parker-Hartford Corporation — Hartford

Capacitors
Electro Motive Mfg Co Inc. The (mica & trimmer) — Willimantic

Carbide Drawing Dies
State Products Co (eyelet special shape dies) — Oakville

Carbide Shape Dies
Thomaston Tool & Die Co (any form) — Thomaston

Carbide Tools
Atrax Company The (solid) — Newington
Precision Tool & Die Co — Waterbury

Carbon Pile Type Resistors
Engineered Metals — Manchester

Card Clothing
Standard Card Clothing Co The (for textile mills) — Stafford Springs

Card Indexes
Wassell Organization Inc — Westport

Carpenter's Tools
Sargent & Company (Planes, Squares, Plumb Bobs, Bench Screws, Clamps and Saw Vices) — New Haven

Carpets and Rugs
Bigelow-Sanford Carpet Co — Thompsonville

Carton Closure Equipment
Better Packages Inc ("Tape-O-Matic," "Better Pack") — Shelton

Casters
Bassick Company The (Industrial and General) — Bridgeport

Castings
Connecticut Foundry Co (grey iron) — Rocky Hill
Connecticut Malleable Castings Co. (malleable (iron castings) — New Haven
Ductile Iron Foundry Inc — Stratford
Eastern Malleable Iron Company The (malleable iron, metal and alloy) — Naugatuck
Farrel-Birmingham Company Inc (Mechanite Nodular Iron, Steel) — Ansonia
H R Engineering Laboratories Inc (centrifugal, steel moid) — East Haddam
Hartford Electric Steel Corp The (carbon, low alloy and stainless steel castings) — Hartford
Malleable Iron Fittings Co (malleable iron and steel) — Branford
McLagon Foundry Co. (grey iron) — New Haven
Newton-New Haven Co (zinc and aluminum) — West Haven
Nutmeg Crucible Steel Co (steel) — Branford
Plainville Casting Company (gray, alloy and high tensile irons) — Plainville
Philbrick-Booth & Spencer Inc — Hartford
Producto Machine Company The — Bridgeport
Scovill Manufacturing Company (Brass & Bronze) — Waterbury
Turner & Seymour Mfg Co The (gray iron, semi steel and alloy) — Torrington
Union Mfg Co (grey iron & semi steel — New Britain
Waterbury Foundry Company The (highway & sash weights) — Waterbury
Wilcox Crittenden & Co Inc (gray iron and brass) — Middletown (Advt.)

Castings—Investment
Arwood Precision Casting Corp — Groton

Cements—Refractory
Mullite Works Refractories Div H K Porter Co Inc — Shelton

Centerless Grinding
Brown Manufacturing Co. — New Britain
New England Centerless Grinding, Inc. — West Hartford
Winsted Centerless Co — Winsted

Centers
Ready Tool Co The (anti friction, carbide tipped, high speed) — Stratford

Centrifugal Pumps
Hamco Inc (gasoline or electric driven) — New Haven

Cermets
Russell Mfg Co (for missiles, and for friction materials) — Middletown

Chain
Risdon Manufacturing Co John M Russel Div — Naugatuck
Turner and Seymour Mfg Co The (weldless, sash, jack, safety, furnace, universal, lion and cable) — Torrington

Chain-Beaded
Auto-Swage Products Inc — Shelton
Bead Chain Mfg Co The — Bridgeport

Chain—Power Transmission and Conveying
Whitney Chain Company — Hartford

Chairs
The Hitchcock Chair Company — Riverton

Chemical Manufacturing
Carwin Company The — North Haven

Chemicals
Apothecaries Hall Company Division
The Hubbard Hall Chemical Company — Waterbury
Axton-Cross Co — Shelton
Carwin Company The — North Haven
Dulite Chemical Corp The — New Haven
Macalaster Bicknell Company — New Haven
MacDermid Incorporated — Waterbury
Naugatuck Chemical Division United States Rubber Co — Naugatuck
New England Lime Company — Canaan
Pfizer & Co Inc Chas — Groton
United States Chemical Corp (maintenance and powdered hand soap, floor waxes, cleaners, disinfectants, fuel additives) — New Haven

Chemicals—Agriculture
Naugatuck Chemical Division United States Rubber Co (insecticides, fungicides, weed killers) — Naugatuck

Chemists—Analytical and Consulting
Bridgeport Testing Laboratory Inc — Bridgeport

Christmas Light Clips
Foursome Manufacturing Co — Bristol

Chromium Plating
Chromium Corp of America — Waterbury
Chromium Process Company The — Shelton

Chucks
Cushman Chuck Co The — Hartford
Jacobs Manufacturing Co The — West Hartford
Jacobs Manufacturing Co The (drill chucks lathe collet chucks and arbors) — West Hartford
Union Manufacturing Company — New Britain

Chucks—Drill
Jacobs Manufacturing Co The — West Hartford

Chucks & Face Plate Jaws
Cushman Chuck Co The — Hartford
Union Mfg Co — New Britain

Chucks—Power Operated
Cushman Chuck Co The — Hartford
Union Manufacturing Company — New Britain

Clay
Howard Company (Fire Howard "B" and High Temperature Dry) — New Haven

Cleaning Compounds
Enthone Inc (Industrial) — New Haven
MacDermid Incorporated — Waterbury

Clock Mechanisms
Lux Clock Mfg Co The — Waterbury

Clocks
E Ingraham Co The — Bristol
United States Time Corporation The — Waterbury

Clocks—Alarm
Lux Clock Mfg Co The — Waterbury

Clocks—Automatic Cooking
Lux Clock Mfg Co The — Waterbury

Clutches
Snow-Nabstedt Gear Corp The — New Haven

Clutch Facings
Raybestos Division of Raybestos-Manhattan Inc (Molded, Woven, Semi-metallic and Full-metallic) — Bridgeport
Russell Mfg Co (rubber Shock Cord—all sizes and types) — Middletown

Coils—Electric
Bittermann Electric Company — Canaan
Rowley Spring Co. Inc., The (Air-wound for television and electronic industries) — Bristol

Coils—Pipe or Tube
National Pipe Bending Co The — New Haven
Whitlock Manufacturing Co The — Hartford

Cold Molded Electrical Insulation
Meriden Molded Plastics — Meriden

Commercial Heat Treating
A F Holden Company The — West Haven

Commercial Truck Bodies
King Co Alfred B — North Haven
Metropolitan Body Company — Bridgeport

Compacts
Scovill Manufacturing Company (powder and rouge) — Waterbury

Comparators
Pratt & Whitney Co Inc (Electro-limit and Air-O-Limit) — West Hartford

Compressors
Norwalk Company Inc (high pressure air and gas) — South Norwalk

Computers
Reflectone Electronics, Inc. — Stamford
Royal McBee Corp — Hartford

Concrete Products
Plasticrete Corp — Hamden, Hartford, North Haven, Waterbury, Willimantic

Condenser and Heat Exchanger Tubes
Bridgeport Brass Company — Bridgeport
Scovill Manufacturing Company — Waterbury

Cones
Sonoco Products Co (Climax-Lowell Div.) (Paper) — Mystic

Connector
Gorn Electric Co Inc (precision miniature electrical and printed circuit) — Stamford

Consulting Engineers
McNeal J D (Electrical and Electronic) — New Haven
Stanley P. Rockwell Co Inc The (Consulting) — Hartford

Continuous Mill Gages
Pratt & Whitney Co Inc — West Hartford

Contract Machining
Laurel Mfg Co Inc (Precision Production Small Parts) — Plainville
Malleable Iron Fittings Company — Branford

Contract Manufacturers
Fenn Mfg Co The (Precision Machine Work) — Newington
Greist Mfg Co The (metal parts and assemblies) — New Haven
Hartford Machine Screw Co Div of Standard Screw Co — Hartford
Merriam Mfg Co (production runs—metal boxes and containers to specifications) — Durham
Plume & Atwood Mfg Co The (metal parts and assemblies) — Thomaston
Scovill Manufacturing Company (metal parts and assemblies) — Waterbury
J H Sessions & Son — Bristol
Torrington Co The — Torrington

Controllers
Bristol Company The — Waterbury
Manning Maxwell & Moore Inc — Stratford

Controls—Remote
Panish Controls (Remote Controls for Marine & Aeronautic Applications) — Bridgeport

Controls—Hydraulic Remote
Sperry Products Inc — Danbury

Converters DC to AC
Electric Specialty Co — Stamford
Safety Electrical Equipment Corp — New Haven

Conveyer Systems
Hayes-Te Equipment Corp Connecticut Conveyor Division (Conveyor Co The) — Unionville
King Co Alfred B — North Haven
Leeds Conveyor Mfg Co The — East Haven
Production Equipment Co — Meriden

Copper
American Brass Corp The (sheet, wire, rods, tubes) — Waterbury
Bristol Brass Corp The (steel) — Bristol
Chase Brass & Copper Co (sheet, rod, wire tube) — Waterbury
Thinsheet Metals Co The (sheet and rolls) — Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp — New Haven

Copper Castings
Knapp Foundry Company Inc — Guilford

Copper Sand Castings
Bridgeport Deoxidized Bronze Corp — Bridgeport

Copper Sheets
American Brass Company The — Waterbury
New Haven Copper Co The — Seymour

Copper Shingles
New Haven Copper Co The — Seymour

Copperware
Bridgeport Brass Company (cooking utensils) — Bridgeport

Copper Water Tube
American Brass Company The — Waterbury

Cord
Russell Mfg Co The (marine & aero shock) — Middletown

Cords—Asbestos Insulated
General Electric Company — Bridgeport

Cords—Braided
General Electric Company — Bridgeport

Cords—Heater
General Electric Company — Bridgeport

Cords—Portable
General Electric Company — Bridgeport

Cord Sets—Electric
General Electric Company — Bridgeport
Seeger-Williams Inc — Bridgeport

Cork Cots
Sonoco Products Co (Climax-Lowell Div) — Mystic

Corn Cob Meal
Nielsen & Sons Inc. John R (graded) — South Windsor

Correspondence Files
Wassell Organization Inc — Westport

Corrugated Box Manufacturers
Connecticut Container Corporation — New Haven
Corrugated Containers Inc — Hartford

Corrugated Shipping Cases
Connecticut Container Corporation — New Haven
Continental Can Co. Fibre Drum and Corrugated Box Division — Portland
D L & D Container Corp — New Haven

Cosmetic Containers
Eyelet Specialty Div. International Silver Co. — Wallingford
Plume & Atwood Mfg Co The (metal) — Thomaston
Scovill Manufacturing Company — Waterbury

Cosmetics
J B Williams Co The — Glastonbury

Cotton and Asbestos Wicking
Bland Burner Co The — Hartford

Counting Devices
Veeder-Root Inc — Hartford

Couplings
Scovill Manufacturing Company (hose and tube) — Waterbury

Crushers
Farrel-Birmingham Company Inc (Stone and Ore) — Ansonia

Cushioning for Packaging
Gilman Brothers Co The — Gilman

Cutters
Atrax Company The (solid carbide) — Newington
Hanson-Whitney Co The (thread milling) — Hartford
Mitrametric Co The (ground pinion) — Torrington
Pratt & Whitney Co Inc (Milling Cutters all types carbide and HSS) — West Hartford

Cutting & Creasing Rule
Bartholomew Co H J — Bristol

Data Processing Equipment
Royal McBee Corp — Hartford

Decalcomanias
Sirocco Screenprints — New Haven

IT'S MADE IN CONNECTICUT

Deep Drawings
Stanley Pressed Metal — New Britain
Terryville Mfg Co The — Terryville

Delayed Action Mechanism
M H Rhodes Inc — Hartford
R W Cramer Company Inc The — Centerbrook

Demineralizers
Crystal Research Laboratories — Hartford

Design
Designers for Business and Industry (product design-appearance) — New Haven

Design & Drafting Service
Smith & Winchester Mfg Co The — South Windham

Diamonds—Industrial
Parsons Diamond Products Inc — West Hartford

Dictating Machines
Dictaphone Corporation — Bridgeport
Gray Manufacturing Company The — Hartford
SoundScriber Corporation The — New Haven

Die Cast Dies
C & F Tool & Die Corp — Bridgeport

Die Castings
Newton-New Haven Co Inc — New Haven
Stewart Die Casting Div Stewart-Warner Corp — Bridgeport

Die Casting Dies
ABA Tool & Die Co — Manchester
Eastern Machine Screw Corp The — New Haven
Weimann Bros Mfg Co. The — Derby

Die Heads—Self Opening
Eastern Machine Screw Corp The — New Haven
Geometric Tool Division, Greenfield Tap & Die Corp — New Haven

Die Polishing Machinery
Hartford Special Machinery Co The — Hartford

Die Sets
Producto Machine Company The — Bridgeport
Union Mfg Co (precision, steel and semi-steel) — New Britain

Die Sinkers
Pratt & Whitney Co Inc — West Hartford

Dies
Hoggson & Pettis Mfg Co The — New Haven
Mitrametric Co The (ground for gears) — Torrington
Pratt & Whitney Co Inc (Monocone and Duecone Dies) — West Hartford
Pratt & Whitney Co Inc (thread cutting and thread rolling) — West Hartford

Dies & Die Cutting
Douglas Co Geo M — New Haven

Display Containers
National Folding Box Co Div Federal Paper Board Co Inc (folding paperboard) — New Haven and Versailles

Displays—Design & Production
Ad-Craft Displays, Inc. — Bloomfield
Conn-Craft Co. (Plastic) — Waterbury
Stifel & Kufta — New Britain

Display Equipment
Polecats Inc — Old Saybrook

Displays—Metal
Durham Mfg Co The (Designing & Mfg to customers' specifications) — Durham
Merriam Mfg Co (Contract Work to Individual Specifications) — Durham
Parsons Co Inc W A (custom designed) — Durham

Displays—Plastic
Dura Plastics of New York, Inc. — Westport

Door Closers
Sargent & Company — New Haven
Yale & Towne Mfg Co The — Stamford

Doors
Bilco Co The (metal, residential and commercial) — West Haven

Dowel Pins
Allen Manufacturing Co The — Hartford
Hartford Machine Screw Co Div of Standard Screw Co — Hartford
Holo-Krome Screw Corp The — West Hartford
Torrington Co The — Torrington

Drafting Accessories
Joseph Merritt & Co — Hartford

Drawn Shells
Cly-Del Manufacturing Co. — Waterbury

Drill Presses
Townsend Mfg Co The H P — Elmwood

Drilling Machines
Howe & Fant Inc (Turret Type) — East Norwalk
Pratt & Whitney Co Inc (Deep Hole) — West Hartford

Drilling and Tapping Machinery
Hartford Special Machinery Co The — Hartford

Drop Forgings
Atwater Mfg Co — Plantsville
Billings & Spencer Co The — Hartford
Consolidated Industries — West Cheshire
Wilcox Crittenden & Co Inc — Middletown

Druggists' Rubber Sundries
Seamless Rubber Company The — New Haven

Duplicating Machines—Automatic
Pratt & Whitney Co Inc — West Hartford

Dust Collectors
Colonial Blower Co — Plainville
Ventilating Supplies Inc — Plainville

Elastic
Russell Mfg Co (rubber shock cord—all sizes and types) — Middletown

Electric Cables
General Electric Company (for residential, commercial and industrial applications) — Bridgeport
Rockbestos Products Corp (asbestos insulated) — New Haven

Electric Cord Springs
Bristol Spring Manufacturing Co — Plainville

Electric Cords
General Electric Company — Bridgeport
Rockbestos Products Corp (asbestos insulated) — New Haven

Electric Eye Control
Ripley Company Inc — Middletown

Electric Fixture Wire
Rockbestos Products Corp (asbestos insulated) — New Haven

Electric Hand Irons
Winsted Hardware Mfg Co (trade mark "Durabilt") — Winsted

Electric Heating Elements
Hartford Element Co — Hartford

Electric Ignition Harnesses
General Electric Company — Bridgeport

Electric Insulation
Case Brothers Inc — Manchester
Stevens Paper Mills Inc The — Windsor

Electric Lighting Fixtures
Fan-Craft Mfg Co (residential, church, post lanterns) — Plainville
Plume & Atwood Mfg Co The — Thomaston
Wasley Products Inc — Plainville

Electric Motor Controls
Arrow-Hart & Hegeman Electric Co The — Hartford

Electric Motor Winding
Monarch Electric Co (3 phase industrial motors) — New Britain

Electric Motor Repair
B & J Electric Co — Ansonia

Electric Motors
Electric Specialty Co — Stamford
Iona Manufacturing Company The — Manchester
Monarch Electric Co (Allis Chalmers) — New Britain
Safety Electrical Equipment Corp — New Haven
U S Electrical Motors Inc — Milford

Electric Switches
Arrow-Hart & Hegeman Electric Co The — Hartford

Electric Time Controls
Cramer Controls Corporation The — Centerbrook

Electric Underfloor Duct System
General Electric Company — Bridgeport

Electric Wire
General Electric Company — Bridgeport
Rockbestos Products Corp (asbestos insulated) — New Haven

Electric Wiring Devices
Arrow-Hart & Hegeman Electric Co The — Hartford

Electrical Appliances
Iona Manufacturing Company The — Manchester

Electrical Conduit Fittings & Grounding Specialties
Gillette-Vibber Company The — New London

Electrical Connectors
Burndy Corporation — Norwalk

Electrical Control Apparatus
Plainville Electrical Products Co The — Plainville

Electrical Controls
Monarch Electric Co (Allis Chalmers) — New Britain

Electrical Recorders
Bristol Co The — Waterbury

Electrical Relays and Controls
Allied Control Co — Plantsville

Electrical Switchboards
Plainville Electrical Products Co The — Plainville
Pneumatic Applications Co — Simsbury

Electrical Test Equipment
McNeal J D — New Haven

Electrical Wiring Systems
Wiremold Co The — Hartford

Electronic Parts
Patent Button Company The — Waterbury
Prentice Mfg Co The G E (stampings to customers' specifications) — Kensington
Terryville Manufacturing Co (Stampings to customer specifications) — Terryville

Electronics
Beau Electronics — Waterbury
Gray Manufacturing Company the — Hartford
McNeal J D — New Haven
Middletown Mfg Co (metal cabinets, chassis panels, brackets, cases) — Middletown
Ripley Co — Middletown
Sturrup Larabee & Warmers Inc — Middletown
Vineo Electronics Corporation — New Haven

Electroplating
Giering Metal Finishing Inc — Hamden
National Sherardizing & Machine Co — Hartford
Waterbury Plating Company — Waterbury

Electroplating—Equipment & Supplies
Apothecaries Hall Company Division — Waterbury
Enthone Inc — New Haven
Hubbard Hall Chemical Company The — Waterbury
Lea Manufacturing Co The — Waterbury
MacDermid Incorporated — Waterbury

Electroplating Processes & Supplies
Enthone Inc — New Haven

Electrotypes
Barnum-Hayward Electrotype Co Inc — New Haven
Lockwood Sons Inc Wm H — Hartford
New Haven Electrotype Div Electrographic Corp — New Haven

Elevators
Eastern Elevator Co (passenger and freight) — New Haven
General Elevator Service Co — Hartford

Enameling
Giering Metal Finishing Inc — Hamden
Waterbury Plating Company — Waterbury

Enamels & Lacquers
Dobbs Chemical Co The (industrial finishes to customers' specifications) — New Haven

End Milling Cutters
Pratt & Whitney Co Inc (carbide and HSS) — West Hartford

End Mills
Atrax Company The (solid carbide) — Newington

Engraving—Plastic and Nonferrous Metals
Conn-Craft Co. — Waterbury
New England Engraving Company Div. of Dura Plastics of New York, Inc. — Westport
Salisbury Products Inc — Lakeville

Envelopes
Curtis 1000 Inc — Hartford
United States Envelope Company Hartford Division — Hartford

Excelsior
Nielsen & Sons Inc John R — South Windsor

Extractors—Tap
Walton Company The — West Hartford (Advt.)

Extruders and Accessories
Davis Electric Company (Ram Type Teflon Extruder) Wallingford
Standard Machinery and Davis-Standard Divisions of Franklin Research Corp Mystic

Eyelets
American Brass Co The Waterbury
Cly-Del Manufacturing Waterbury
Mark Eyelet & Stamping Co (small—metal stampings) Wolcott
Platt Bros & Co The Waterbury
Plume & Atwood Mfg Co The Thomaston
Scovill Manufacturing Company Waterbury
Stevens Co Inc Waterbury
Waterbury Companies Inc Waterbury

Eyelets, Ferrules and Wiring Terminals
American Brass Company The Waterbury
Waterbury Companies Inc Waterbury

Eyelet Machine Products
American Brass Company The Waterbury
Ball & Socket Mfg Co the West Cheshire
Cold Forming Mfg Co The Waterbury
Platt Bros & Co The Waterbury
Plume & Atwood Mfg Co The Thomaston
Stevens Co Inc Waterbury
Waterbury Companies Inc Waterbury

Fabricators
King Co Alfred B North Haven
Scovill Manufacturing Company (aluminum, brass, bronze, copper, steel) Waterbury

Fabrics
Russell Mfg Co (Teflon, Moulded Fabric, Bearing Surfaces, High Temperature Fabrics) Middletown

Fan Blades
Torrington Manufacturing Company The Torrington

Fancy Dress Buttons and Buckles
Waterbury Companies Inc Waterbury

Fans—Electric
General Electric Company Bridgeport
Monarch Electric Co (attic, industrial and ventilating) New Britain

Fans—Industrial
Ventilating Supplies Inc Plainville

Fasteners—Aircraft
Scovill Manufacturing Company (PANELOC Aircraft Fasteners) Waterbury

Fasteners—Industrial
Torrington Co The Torrington

Fasteners—Laundry Proof
Scoville Manufacturing Company (GRIPPER snap fasteners) Waterbury

Fasteners—Slide & Snap
Scovill Manufacturing Company (GRIPPER zippers and GRIPPER snap fasteners) Waterbury

Felt
Auburn Manufacturing Company The (mechanical, cut parts) Middletown
Dryeor Felt Company (paper makers and industrial) Staffordville

Felt—All Purpose
American Felt Co (Mill & Cutting Plant) Glenville
Chas W House & Sons Inc (Mills & Cutting Plant) Unionville

Fiber-glass Fabrication
Davis Co The E J West Haven

Fibre Board
Bird & Son Inc New Britain
Case Brothers Inc Manchester
Colonial Board Company Manchester
C H Norton Co The North Westchester
Stevens Paper Mills Inc The Windsor

File Cards
Standard Card Clothing Co The Stafford Springs

Filing Equipment
Wassell Organization Inc Westport

Filters—Fluid
Cuno Engineering Corp The Meriden

Finger Nail Clippers
H C Cook Co The Ansonia

Firearms
Colt's Patent Fire Arms Mfg Co Inc Hartford
Junior Screw Machine Products Inc West Haven
Marlin Firearms Co The New Haven
O F Mossberg & Sons Inc New Haven
Winchester-Western Div Olin Mathieson Chemical Corp New Haven

Fire Alarm Systems
Fire-Lite Alarms Inc New Haven

Fire Hose
Fabrics Fire Hose (municipal and industrial) Sandy Hook

Fireplace Goods
John P Smith Co The (screens) New Haven

Fireworks
M Backes' Sons Inc Wallingford

Fishing Tackle
H C Cook The Ansonia

Flashlights
Bridgeport Metal Goods Mfg Co Bridgeport

Flat Springs
Bristol Spring Manufacturing Co Plainville
Gemco Manufacturing Co Inc Southington

Flexible Shaft Machines
Pratt & Whitney Co Inc West Hartford

Float Switches
Gorn Electric Co Inc (for aircraft and commerical use) Stamford

Floor & Ceiling Plates
Beaton & Cadwell Mfg Co The New Britain

Fluorescent Lighting Equipment
Fullerton Manufacturing Corp Norwalk
Vanderman Manufacturing Co The Willimantic
Wiremold Company The Hartford

Foam Rubber
Armstrong Rubber Company The West Haven

Forgings
Atwater Manufacturing Company Plantsville
Billings & Spencer Company Hartford
Bridgeport Hardware Mfg Corp The Bridgeport
Capewell Manufacturing Company Hartford
Chase Brass & Copper Co Waterbury
Clark Brothers Bolt Co Milldale
Consolidated Industries Inc West Cheshire
Heppenstall Co (all kinds and shapes) Bridgeport
Scovill Manufacturing Company (Non-ferrous) Waterbury

Foundries
Connecticut Malleable Castings Co (malleable iron castings) New Haven
Derby Castings Company, The Seymour
Ductile Iron Foundry Inc Stratford
Farrel-Birmingham Company Inc (Iron and Steel) Ansonia
Hartford Electric Steel Corp The Hartford
Malleable Iron Fittings Co (Malleable Iron and Steel Castings) Branford
Plainville Casting Company (gray, alloy and high tensile irons) Plainville
Producto Machine Company The Bridgeport
Smith & Winchester Mfg Co The South Windham
Turner & Seymour Mfg Co The (gray, iron, semi steel and alloy) Torrington
Union Mfg Co (gray iron & semi steel) New Britain
Wilcox Crittenden & Co Inc (iron, brass, aluminum and bronze) Middletown

Fountain Pens and Mechanical Pencils
Waterman Pen Company Inc Seymour

Foundry Riddles
John P Smith Co The New Haven

Four Slide Forms
Peck Spring Co Plainville

Frames—Hack Saw
Thompson & Son Co The Henry G New Haven

Fuel Oil Pump and Heater Sets
Peabody Engineering Corporation Stamford

Furnaces
Norwalk Airconditioning Corp South Norwalk

Gage Blocks
Pratt & Whitney Co Inc (Alloy steel and Carbide, Hoke and USA) West Hartford

Galvanizing
Malleable Iron Fittings Co Branford
Wilcox Crittenden & Co Inc Middletown

Gaskets
Auburn Manufacturing Company The (from all materials) Middletown
Raybestos Division of Raybestos-Manhattan Inc Bridgeport

Gaskets—Insulation
American Felt Co Glenville

Gas Range Conversion Burner
Holyoke Heater Corp of Conn Inc Hartford

Gas Scrubbers, Coolers and Absorbers
Peabody Engineering Corporation Stamford

Gauges
Bristol Co The (pressure and vacuum-recording automatic control) Waterbury
Helicoid Gage Division American Chain & Cable Co The (pressure and vacuum) Bridgeport
Manning Maxwell & Moore Inc Stratford
New Haven Trap Rock Co The Machine Products Div (Johan Universal and Special Purpose Gauge) North Branford
Pratt & Whitney Co Inc (Precision Measurement all types) West Hartford

Gears
Mitrametric Co The (blanked fine pitch) Torrington

Gears and Gear Cutting
Farrel-Birmingham Company Inc Ansonia
Fenn Mfg Co The Newington
Hartford Special Machinery Co The Hartford
United Gear & Machine Co Suffield

Generators
Hamco Inc (electric, portable, gasoline driven) New Haven
Safety Electrical Equipment Corp New Haven

Glass Blowing
Macalaster Bicknell Company New Haven

Glass Containers
Feldman Glass Co. The New Haven

Glass Cutters
Fletcher-Terry Co The Forestville

Greeting Cards
A D Steinbach & Sons Inc New Haven

Grinding
Farrel-Birmingham Company Inc (Roll and Cylindrical) Ansonia
Hartford Special Machinery Co The (gears, threads, cams and splines) Hartford
Horberg Grinding Industries Inc (Precision custom grinding; centerless, cylindrical, surfaces, internal and special) Bridgeport
K-F & D Mfg Company The (Contour and Precision) Manchester

Grinding Heads—Internal
Pratt & Whitney Co Inc (Pneumatic, High Speed) West Hartford

Grinding Machines
Farrel-Birmingham Company Inc (Roll) Ansonia
Pratt & Whitney Co Inc (Surface, Die, Gear and Cutter Grinders) West Hartford
Rowbottom Machine Company Inc (cam) Waterbury

Grinding Wheels
Fuller Merriam Company The West Haven

Grommets
American Brass Company The Waterbury
Plume & Atwood Mfg Co The Waterbury

Hack and Band Saw Blades
Capewell Manufacturing Co The Hartford

Hair Hygiene Preparations
Parker Herbex Corporation Stamford

Hammers—Carpenters and Machinists
Capewell Manufacturing Company Hartford

Hand Tools
Billings and Spencer Company (wrenches sockets and shop tools) Hartford
Bridgeport Hardware Mfg Corp The (screw drivers, wrenches, nail pullers, box & crate openers, pliers, saws, trowels & special forgings) Bridgeport

Hardened and Ground Parts
Hartford Machine Screw Company Div of Standard Screw Co Hartford

Hardness Testers
Wilson Mechanical Instrument Div American Chain & Cable Company Inc Bridgeport

Hardware
Bassick Company The (Automotive) Bridgeport
City Lumber Co of Bridgeport Inc Bridgeport
Gordon Associates Derby
Harlock Products Corp New Haven
Sargent & Company New Haven
Wilcox Crittenden & Co Inc (marine heavy and industrial) Middletown
Yale & Towne Mfg Co The Stamford

Hardware—Marine & Bus
Rostand Mfg Co The Milford

Hardware—Trailer Cabinet
Excelsior Hardware Co The Stamford

Hardware, Trunk & Luggage
Corbin Cabinet Lock Div American Hardware Corp New Britain
J H Sessions & Son Bristol
Yale & Towne Mfg Co The Stamford

Hat Machinery
Doran Bros Inc Danbury

Health Surgical & Orthopedic Supports
Berger Brothers Company The (custom made for back, breast and abdomen) New Haven

Heat Elements
Electro-Flex Heat Inc Hartford
Safeway Heat Elements Inc (woven wire resistance type) Middletown

Heat Exchangers
Whitlock Manufacturing Co The Hartford
Dunham-Bush, Inc. West Hartford

Heat Sealing—Electronic
Berger Bros (vinyl-polyethylene) New Haven

IT'S MADE IN CONNECTICUT

Heat Treating
Bennett Metal Treating Co The — Elmwood
Commercial Metal Treating Co — Bridgeport
Hartford Machine Screw Company — Hartford
New Britain-Gridley Machine Division The New Britain Machine Co — New Britain
New Haven Heat Treating Co Inc — New Haven
Skene Co Inc The William A (metals) — Bridgeport
Stanley P Rockwell Co Inc The — Hartford (Advt.)

Heat-Treating Equipment
Barnes Co The Wallace Div Associated Spring Corp — Bristol
Bauer & Company Inc — Hartford
Rolock Inc (Retorts, Muffles, etc) — Fairfield
Stanley P Rockwell Co Inc The (commercial) — Hartford

Heat Treating Fixtures
Rolock Inc (Trays, Baskets, etc.) — Fairfield
Wiretex Mfg Co Inc — Bridgeport

Heat Treating Salts and Compounds
Mitchell-Bradford Chemical Co — Milford

Heaters—Electric
General Electric Company — Bridgeport

Heating
Dunham-Bush, Inc. — West Hartford

Heating and Cooling Coils
G & O Manufacturing Co — New Haven

Heating Elements
Hartford Element Co — Hartford

Heavy Chemicals
Naugatuck Chemical Division United States Rubber Co (sulphuric, nitric and muriatic acids and aniline oil) — Naugatuck

Heavy Machinery
Smith & Winchester Mfg Co The — South Windham

Hex-Socket Screws
Allen Manufacturing Company The — Hartford
Bristol Company The — Waterbury
Hartford Machine Screw Co Div of Standard Screw Co — Hartford
Holo-Krome Screw Corp The — West Hartford

High Frequency Alternators
Electric Specialty Co — Stamford
Safety Electrical Equipment Corp — New Haven

Highway Guard Rail Hardware
Malleable Iron Fittings Co — Branford

Hinges
Homer D Bronson Company — Beacon Falls

Hobs and Hobbings
ABA Tool & Die Co — Manchester
Pratt & Whitney Co Inc (Die and Thread milling) — West Hartford

Hobs
Hanson-Whitney Co The (fine pitch gear) — Hartford

Hoists and Trolleys
Union Mfg Company — New Britain

Honing
K-F & D Mfg Company The — Manchester

Hose Fittings
Scovill Manufacturing Company — Waterbury

Hose—Flexible Metallic
American Brass Co
American Metal Hose Branch — Waterbury

Hose Supporter Trimmings
Hawie Mfg Co The (So-Lo Grip Tabs) — Bridgeport

Hospital & Rehabilitation Equipment
Polecats Inc — Old Saybrook

Hydraulic Brake Fluids
Eis Manufacturing Co — Middletown

Hypodermic Needles
Roehr Products Company — Waterbury

Impregnating
American Metaseal Inc (metal, wood etc.) — Hamden

Industrial Chrome Plating
Mirror Polishing & Buffing Co — Waterbury

Industrial Displays
Sansone Co S Frederick (Designers Builders and Counselors) — Short Beach

Industrial Finishes
Chemical Coatings Corporation — Rocky Hill

Inks
Waterman Pen Company Inc — Seymour

Insecticides
American Cyanamid Company — Waterbury

Instalment Payment Books
Wassell Organization Inc — Westport

Insulated Wire & Cable
General Electric Company (for residential commercial and industrial applications) — Bridgeport
Kerite Company The — Seymour

Insulated Wire & Cable Machinery
Davis Electric Company — Wallingford

Instruments
Bristol Company The — Waterbury
Manning Maxwell & Moore Inc — Stratford
Penn Keystone Corporation — Derby
Pratt & Whitney Co Inc (Precision Measuring) — West Hartford
Terryville Mfg Co The (stampings for) — Terryville

Integrators
Reflectone Electronics, Inc. — Stamford

Intercommunication
Action Systems Co — Meriden

Interval Timers
Lux Clock Manufacturing Company — Waterbury
Rhodes Inc M H — Hartford

Jacquard
Case Brothers Inc — Manchester

Japanning
H Sessions & Son — Bristol

Jig Borer
Linley Brothers Company — Bridgeport
Moore Special Tool Co (Moore) — Bridgeport
Pratt & Whitney Co Inc — West Hartford

Jigs, Fixtures & Gages
Federal Machine & Tool Co — Bristol

Jig Grinder
Moore Special Tool Co (Moore) — Bridgeport
Pratt & Whitney Co Inc — West Hartford

Junior Automobiles
Power Car Company — Mystic

Keller Machines
Pratt & Whitney Co Inc — West Hartford

Key Blanks
Sargent & Company — New Haven
Yale & Towne Mfg Co The — Stamford

Labels
Naugatuck Chemical Division United States Rubber Co (for rubber articles) — Naugatuck

Label Dispensers
Derby Sealers Inc (pressure-sensitive labels) — Derby

Label Moisteners
Better Packages Inc ("Counterboy"—"Packer") — Shelton
Derby Sealers Inc — Derby

Laboratory Equipment
Eastern Industries Inc — New Haven

Laboratory Supplies
Macalaster Bicknell Company — New Haven

Laces
American Fabrics Company The — Bridgeport
Wilcox Lace Corporation The — Middletown

Lacquers & Synthetic Enamels
Chemical Coatings Corporation — Rocky Hill
I-Sis Chemicals Inc — Stamford

Ladders
Flint Co A W — New Haven

Laminated Metal
Bridgeport Brass Company — Bridgeport

Lamps
Plume & Atwood Mfg Co The (metal oil) — Waterbury

Lampholders—Incandescent and Fluorescent
General Electric Company — Bridgeport

Lamp Shades
Verplex Company The — Essex

Lanterns—Battery Operated
Electrical Div Olin Mathieson Chemical Corp — New Haven

Lathes—Toolroom and Automatic
Pratt & Whitney Co Inc — West Hartford

Lead Plating
Christie Plating Co The — Groton

Leather
Herman Roser & Sons Inc (Genuine Pigskin) — Glastonbury

Leather Dog Furnishings
Andrew B Hendryx Co The — New Haven
The Smith-Worthington Saddlery Co — Hartford

Leather, Mechanical
Auburn Manufacturing Company The (packings, cubs, washers, etc) — Middletown

Letterheads
Lehman Brothers Inc (designers, engravers, lithographers) — New Haven

Lighting Accessories—Fluorescent
General Electric Company — Bridgeport

Lighting Equipment
Fullerton Manufacturing Corp — Norwalk
Miller Co The (Miller, Ivanhoe) — Meriden

Lime
New England Lime Company — Canaan

Lipstick Cases
Scovill Manufacturing Company — Waterbury

Lipstick Containers
Bridgeport Metal Goods Mfg Co — Bridgeport
Plume & Atwood Manufacturing Co — Waterbury

Lithographers
O'Toole & Sons Inc T — Stamford

Lithographing
City Printing Co. The — New Haven
Kellogg & Bulkeley A Division of Connecticut Printers Inc — Hartford
Lehman Brothers Inc — New Haven
A. D. Steinbach & Sons — New Haven

Locks—Banks
Yale & Towne Mfg Co The — Stamford

Locks—Builders
Sargent & Company — New Haven
Yale & Towne Mfg Co The — Stamford

Locks—Cabinet
Excelsior Hardware Co The — Stamford
Yale & Towne Mfg Co The — Stamford

Locks—Special Purpose
Yale & Towne Mfg Co The — Stamford

Locks—Suitcase and Trimmings
Excelsior Hardware Co The — Stamford

Locks—Trunk
Excelsior Hardware Co The — Stamford
Yale & Towne Mfg Co The — Stamford

Locks—Zipper
Excelsior Hardware Co The — Stamford

Loom—Non-Metallic
Wiremold Company The — Hartford

Lubricants—Extreme Temperatures
Alpha Molykote Corp — Stamford

Lubricants—High Pressure
Alpha Molykote Corp — Stamford

Lubricating System—Mist
Thompson & Son Co The Henry G — New Haven

Lumber & Millwork Products
City Lumber Co of Bridgeport Inc — Bridgeport

Machetes
Collins Company The — Collinsville

Machine Design
Black Rock Mfg Co The — Bridgeport

Machine Overload Monitors
Sperry Products Inc — Danbury

Machine Shop Fabrication
Smith & Winchester Mfg Co The — South Windham (Advt.)

IT'S MADE IN CONNECTICUT

Machine Tools
Farrel-Birmingham Company Inc Ansonia
Pratt & Whitney Co Inc West Hartford
Producto Machine Company The Bridgeport

Machine Work
Banthin Engineering Co Bridgeport
Black Rock Mfg Co The Bridgeport
Farrel-Birmingham Company Inc Ansonia
Fenn Manufacturing Company The (precision parts) Newington
Fuller Brush Company The (precision contract work) Hartford
Hartford Special Machinery Co The (contract work only) Hartford
National Sheradizing & Machine Co. (job) Hartford
New Haven Trap Rock Co The Machine Products Div North Branford
Parker-Hartford Corporation Hartford
Swan Tool & Machine Co The Hartford
Safety Electrical Equipment Corp New Haven
Torrington Manufacturing Co The (special rolling mill machinery) Torrington
Torrington Co The Torrington

Machinery
Conn Machine Repair Inc (special mfg) Bridgeport
Davis Electric Company (Wire and Cable) Wallingford
Fenn Manufacturing Company The (special) Newington
Hallden Machine Company The (mill) Thomaston
Torrington Manufacturing Co The (mill) Torrington
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc (metal working) Waterbury

Machinery—Automatic
Banthin Engineering Company (new and rebuilt) Bridgeport

Machinery—Bolt and Nut
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Machinery—Cold Heading
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Machinery Dealers & Rebuilders
Botwinik Brothers New Haven
Bristol Metal Working Equipment East Hartford
Conn Machine Repair Inc Bridgeport
J L Lucas and Son Fairfield
State Machinery Co Inc New Haven

Machinery—Extruding
Standard Machinery and Davis-Standard Divisions of Franklin Research Corp Mystic

Machinery—Metal-Working
Fenn Mfg Co The Newington
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury
Pratt & Whitney Co Inc West Hartford

Machinery—Nut
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc (forming and tapping) Waterbury

Machinery—Screw and Rivet
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Machinery—Wire Drawing
Fenn Mfg Co The Newington
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Machinery Rebuilding
Conn Machine Repair Inc Bridgeport

Machinery—Wire Straightening
Mettler Machine Tool Inc New Haven
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Machinery—Wire Straightening and Cutting
Mettler Machine Tool Inc New Haven

Machines
Campbell Machine Div American Chain & Cable Co Inc (cutting & nibbling) Bridgeport
Coulter & McKenzie Machine Co The (special, new development engineering design and construction) Bridgeport
Patent Button Company The Waterbury

Machines Automatic
Globe Tapping Machine Co Bridgeport

Machines—Automatic Chucking
New Britain-Gridley Machine Division The New Britain Machine Co (multiple spindle and double end) New Britain
Pratt & Whitney Co Inc (Potter & Johnson) West Hartford

Machines—Brushing
Fuller Brush Co The Hartford

Machines—Draw Benches
Fenn Manufacturing Company The Newington
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Machines—Forming
Nilson Machine Company The A H (four-slide wire and ribbon stock) Shelton

Machines—Paper Ruling
John McAdams & Sons Inc Norwalk

Machines—Precision Boring
New Britain-Gridley Machine Division The New Britain Machine Co. New Britain

Machines—Rolling
Fenn Manufacturing Company The Newington

Machines—Slotting
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc (screw head) Waterbury

Machines—Special
Fenn Mfg Co The Newington
Fuller Brush Co The Hartford

Machines—Swaging
Fenn Manufacturing Company The Newington
Torrington Co The Torrington
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Machines—Thread Rolling
Hartford Special Machinery Co The Hartford
Peterson Division Mettler Machine Tool Inc New Haven
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Machines—Turks Head
Fenn Manufacturing Company The Newington
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Machines—Wire Drawing
Fenn Manufacturing Company The Newington
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Machining—Horizontal Boring
Tucker Machine Co New Haven

Manganese Bronze Ingot
Whipple and Choate Company Bridgeport

Manicure Instruments
W E Bassett Company The Derby

Marine Equipment
Wilcox-Crittenden Div North & Judd Mfg Co Middletown

Marine Reserve Gears
Snow-Nabstedt Gear Corp The New Haven

Marking Devices
Cooney Engraving Co Branford
Hoggson & Pettis Mfg Co The New Haven
Parker-Hartford Corporation (steel) Hartford

Marking Tools
Parker-Hartford Corporation Hartford

Masonry Products
Plasticrete Corp Hamden, Hartford, North Haven, Waterbury, Willimantic

Materials Handling
Hayes-Te Equipment Corp Connecticut Conveyor Division (Conn-Veyor) Unionville
Parsons Co Inc W A (tote pans) Durham

Mats—Newspaper
Lockwood Sons Inc Wm H Hartford

Mattresses
Waterbury Mattress Co Waterbury

Metal Boxes
Durham Mfg Co Durham
Parsons Co Inc W A (tool kits) Durham

Metal Boxes and Displays
Durham Mfg Co The (Designing & Mfg to customers' specifications) Durham
Merriam Mfg Co (Bond, Security, Cash, Utility, Personal Files, Drawer Safes, Custombilt containers and displays) Durham
Middletown Mfg Co Middletown

Metal Cleaners
Apothecaries Hall Company Division The Hubbard Hall Chemical Company Waterbury
Enthone Inc New Haven
MacDermid Incorporated Waterbury

Metal Finishes
Enthone Inc New Haven
Mitchell-Bradford Chemical Co Milford

Metal Finishing
Hartford Industrial Finishing Co Hartford
National Sheradizing & Machine Co Hartford
Waterbury Plating Company Waterbury

Metal Formings
Master Engineering Company West Cheshire
Stanley Pressed Metal New Britain

Metallurgists
Bridgeport Testing Laboratory Inc Bridgeport

Metal Mouldings
Leed Co The H A Hamden

Metal Novelties
H C Cook Co The Ansonia

Metal Products—Stampings
American Brass Company The Waterbury
Plume & Atwood Manufacturing Co Thomaston
Prentice Mfg Co The G E Kensington
J H Sessions & Son Bristol
Scovill Manufacturing Company (Made-to-Order) Waterbury
Stanley Pressed Metal New Britain

Metal Specialties
Excelsior Hardware Co The Stamford
Torrington Co The Torrington

Metal Spinning
Moseley Metal Crafts Inc West Hartford

Metal Stampings
American Brass Company The Waterbury
Better Formed Metals Inc Waterbury
Cly-Del Manufacturing Co. Waterbury
DooVal Tool & Mfg Inc The Naugatuck
Excelsior Hardware Co The Stamford
Greist Mfg Co The New Haven
H C Cook Co The Ansonia
Stanley Humason Inc Forestville
Mohawk Mfg Co (threaded) Middletown
North & Judd Manufacturing Co New Britain
J A Otterbein Company The (metal fabrications) Middletown
J H Sessions & Son Bristol
Patent Button Co The Waterbury
Plume & Atwood Mfg Co The Thomaston
Saling Manufacturing Company Unionville
Swan Tool & Machine Co The Hartford
Terryville Manufacturing Co Terryville
Waterbury Companies, Inc. Waterbury
Waterbury Lock & Specialty Co The Milford

Meters—Gas
Sprague Meter Company Bridgeport

Meters—Parking
Rhodes Inc M H Hartford

Microfilming
American Microfilming Service Co. New Haven
Cine-Video Productions Inc Milford

Milk Bottle Carriers
John P Smith Co The New Haven

Mill Machinery
Torrington Manufacturing Company The Torrington
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Milling Machines
Pratt & Whitney Co Inc (Keller Tracer—Controlled Milling Machines) West Hartford
Rowbottom Machine Company Inc (cam) Waterbury

Mill Products
Scovill Manufacturing Company (aluminum, brass, bronze, nickel silver—sheet, rod, wire, tube) Waterbury

Mill Supplies
Wilcox-Crittenden Div North & Judd Mfg Co Middletown

Millwork
Hartford Builders Finish Co Hartford

Miniature Precision Connectors
Gorn Electric Co Stamford

Minute Minders
Lux Clock Mfg Co The Waterbury

Mirror Rosettes and Hangers
Waterbury Companies Inc Waterbury

Mixing Equipment
Easter Industries Inc New Haven

Model Work
B & N Tool & Engineering Co (instruments and timing devices) Thomaston
Conn-Craft Co. (Architectural and Industrial) Waterbury

Mops
Fuller Brush Co The Hartford
(Advt.)

Motion Picture Equipment
Victor Animatograph Corp a div of Kalart (16mm sound and silent projectors film splicers and rewinders) Plainville

Motion Pictures
Cine-Video Productions Inc Milford

Motor—Generator Sets
Electric Specialty Co Stamford
Safety Electrical Equipment Corp New Haven

Motors—Electric Timing
Cramer Controls Corporation The Centerbrook

Motors—Hysteresis Synchronous
Beau Electronics Waterbury

Motors—Synchronous
Cramer Controls Corporation The Centerbrook
Electric Specialty Co Stamford

Moulded Plastic Products
Butterfield Inc T F Naugatuck
Patent Button Co The Waterbury
Scott & Sons Mfg Co Geo S Wallingford
Waterbury Companies Inc Waterbury
Watertown Mfg Co The Watertown

Mouldings
Himmel Brothers Co The (architectural, metal and store front) Hamden

Moulds
ABA Tool & Die Co Manchester
Hoggston & Pettis Mfg Co The (steel) New Haven

Name Plates
Conn-Craft Co. (Metal and Plastic) Waterbury
Cooney Engraving Co Branford
Seton Name Plate Co (metal & plastic name plates and identification tags) New Haven

Napper Clothing
Standard Card Clothing Co The (for textile mills) Stafford Springs

Nettings
Wilcox Lace Corp The Middletown

Newspaper Mats
Lockwood Sons Inc Wm H Hartford

Nickel Anodes
Apothecaries Hall Company Division
The Hubbard Hall Chemical Company
Seymour Manufacturing Co. The Seymour
Waterbury

Nickel Silver
American Brass Company The Waterbury
Bridgeport Brass Company Bridgeport
Plume & Atwood Mfg Co The Thomaston
Waterbury Rolling Mills Inc (sheets, strips, rolls) Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp (sheet, strip) New Haven

Nickel Silver Ingot
Whipple and Choate Company The Bridgeport

Night Latches
Sargent & Company New Haven
Yale & Towne Mfg Co Inc Stamford

Nitriding
Hartford Machine Screw Company Hartford

Non-ferrous Metal Castings
Miller Company The Meriden

Nuts, Bolts and Washers
Clark Brothers Bolt Co Milldale
Hartford Machine Screw Co Div of Standard Screw Co Hartford
Torrington Co The Torrington

Office Equipment
Pitney-Bowes Inc Stamford
Underwood Corporation Bridgeport & Hartford
Wassell Organization Inc Westport

Office Printing
Kellogg & Bulkeley A Division of Connecticut Printers Inc Hartford

Offset Printing
City Printing Co. The New Haven

Oil Burners
Miller Company The (domestic) Meriden
Peabody Engineering Corp (Mechanical and/or Steam Atomizer) Stamford
Silent Gow Oil Burner Corp The Hartford

Oil Tanks
Norwalk Tank Co The (550 to 30M gals, underwriters above and under ground) South Norwalk
Whitlock Manufacturing Co The Hartford

Oils—Cutting
Anderson Oil and Chemical Company, Inc. Portland

Optical Cores & Ingots
Plume & Atwood Mfg Co The Thomaston

Otis Woven Awning Stripes
The Falls Company Norwich

Ovens—Electric
Bauer & Company Inc Hartford

Packaging-Engineering
Commerce Packaging Corp Stamford
National Export Corp. (Military and Commercial—equipped for domestic and export packaging, canning, crating and shipping) New Haven

Packaging & Packing
Commerce Packaging Corp Stamford
Mercer & Stewart Co The Hartford

Packing
Auburn Manufacturing Company The (leather, rubber, asbestos, fibre) Middletown
Raybestos Division of Raybestos-Manhattan Inc (Asbestos and Rubber Sheet) Bridgeport

Padlocks
Sargent & Company New Haven
Waterbury Lock & Specialty Co The Milford
Yale & Towne Mfg Co Inc Stamford

Pads—Office
The Baker Goodyear Company Branford

Paints
Tredennick Paint Manufacturing Co The Meriden

Panelyte
Leed Co The H A Hamden

Panta
Moore Special Tool Co (crush wheel dresser) Bridgeport

Pantographic Reproduction & Fabrication
Conn-Craft Co. (Metals, Plastics and Wood) Waterbury

Paperboard
Continental Can Co., Boxboard and Folding Carton Division Montville
Federal Paper Board Co Inc New Haven
New Haven Board & Carton Co The New Haven
Robertson Paper Box Co Montville

Paper Boxes
Atlantic Carton Corp (folding) Norwich
National Folding Box Co Div Federal Paper Board Co Inc (folding) New Haven & Versailles
Mills Inc H J Bristol
New Haven Board & Carton Co The New Haven
Roberston Paper Box Co (folding) Montville

Paper Boxes—Folding and Setup
Bridgeport Paper Box Company Bridgeport
M Backers' Sons Inc Wallingford

Paper Clips
H C Cook Co The (steel) Ansonia

Paper Mill Machinery
Farrel-Birmingham Company Inc Ansonia

Paper—Shredded
Nielsen & Sons Inc John R South Windsor

Paper Tubes and Cores
Sonoco Products Co (Climax-Lowell) Div Mystic

Parallel Tubes
Sonoco Products Co (Climax-Lowell) Div Mystic

Parking Meters
Rhodes Inc M H Hartford

Parts
Hartford Machine Screw Co Div of Standard Screw Co Hartford
Scovill Manufacturing Company (ammunition, electric instrument, electrical appliance, fountain pen, instrument, lighting fixture, ordance, etc.—blanked, stamped, formed, drawn, re-drawn, forged, screw machined, headed, pointed, finished) Waterbury
Torrington Co The Torrington

Pattern-Makers
Farrel-Birmingham Company Inc Ansonia

Pattern Shop
Smith & Winchester Mfg Co The South Windham

Penlights
Bridgeport Metal Goods Mfg Co Bridgeport

Pet Furnishings
Andrew B Hendrix Co The New Haven

Phosphor Bronze
American Brass Company The Waterbury
Bridgeport Brass Company Bridgeport
Miller Company The (sheets, strips, rolls) Meriden
Waterbury Rolling Mills Inc (sheets, strips, rolls) Waterbury
Western Brass Mills Div Olin Mathieson Chemical Corp (sheets, strip) New Haven

Phosphor Bronze Ingots
Whipple and Choate Company The Bridgeport

Photo Engraving
Dowd Wyllie & Olson Inc Hartford
Wilcox Photo Engraving Co Inc New Haven

Photocopy Equipment and Supplies
Ludwig Inc F G Old Saybrook

Photographic Equipment
Electrical Div Olin Mathieson Chemical Corp New Haven
Kalart Company Inc Plainville

Piano Repairs
Pratt Read & Co Inc (keys and action) Ivoryton

Piano Supplies
Pratt Read & Co (keys and actions, backs, plates) Ivoryton

Pillow Blocks
New Departure Div of General Motors (ball) Bristol

Pins
CEM Company ("Spirol") Danielson
Hartford Machine Screw Co Div of Standard Screw Co Hartford
Torrington Co The (Dowel & Taper) Torrington

Pipe
American Brass Co The (brass and copper) Waterbury
Chase Brass & Copper Co (red brass and copper) Waterbury
Howard Co (cement well and chimney) New Haven

Pipe Fittings
Malleable Iron Fittings Co Branford

Pipe Plugs
Hartford Machine Screw Co Div of Standard Screw Co Hartford
Holo-Krome Screw Corporation The (countersunk) West Hartford

Pipe Plugs—Socketed
Hartford Machine Screw Co Div of Standard Screw Co Hartford
Holo-Krome Screw Corp The West Hartford

Pistols & Revolvers
Colt's Patent Fire Arms Mfg Co Inc Hartford

Plastic Bottles
Plax Corporation Bloomfield

Plastic Buttons
Frank Parizek Manufacturing Co The West Willington
Patent Button Co The Waterbury

Plastic Engraving
Conn-Craft Co. Waterbury
New England Engraving Co Div of Dura Plastics of New York Inc Westport
Salisbury Products Inc Lakeville

Plastic Extruders
Danielson Mfg Co The (nylon and other engineering plastics) Danielson
Jessall Plastics Div of The Electric Storage Battery Co Kensington

Plastic Fabrication
Conn-Craft Co. Waterbury
Dura Plastics of New York, Inc. Westport
Fabricon Corp Unionville
Salisbury Products Inc Lakeville

Plastic Film & Sheet Materials
Gilman Brothers Co The Gilman
Plax Corporation Bloomfield

Plastic Forming
Dura Plastics of New York, Inc. Westport

Plastic Lining Equipment
Enthone Inc New Haven

Plastic Machinery
Black Rock Mfg Co The Bridgeport

Plastic Material
Dura Plastics of New York, Inc. (sheet, rod & tube) Westport

Plastic Molders
Butterfield Inc T F Naugatuck
Conn Plastics Waterbury
Danielson Mfg Co The (nylon and other engineering plastics) Danielson
Engineered Plastics, Inc. Watertown
Plastic Molding Corporation Sandy Hook
Rogers Manufacturing Co The Rockfall
Scott & Sons Mfg Co Geo S Wallingford
U S Plastic Molding Corporation Wallingford
Waterbury Companies Inc Waterbury
Watertown Mfg Co The Watertown

Plastic Pipe and Fittings
Colonial Blower Co Plainville
Danielson Mfg Co The (nylon and other engineering plastics) Danielson
Enthone Inc New Haven

Plastic Printing Plates
Lockwood Sons Inc Wm H Hartford

Plastic Rod
Danielson Mfg Co The (nylon and other engineering plastics) Danielson

Plastic Tape
Danielson Mfg Co The (nylon and other engineering plastics) Danielson

Plastic Tubing
Danielson Mfg Co The (nylon and other engineering plastics) Danielson

Plastic Wire Coating Materials
Electronic Rubber Co Stamford

Plastics
Naugatuck Chemical Division United States Rubber Co Naugatuck (Advt.)

Plastics Machinery
Farrel-Birmingham Company Inc Ansonia

Plastics—Moulds & Dies
Crown Tool & Die Co Inc Bridgeport

Plasticrete Bloc
Plasticrete Corp Hamden, Hartford, North Haven, Waterbury, Willimantic

Platers
Christie Plating Co Groton
Chromium Process Company The (Chromium Plating only) Shelton
Patent Button Co The Waterbury
Water Plating Company Waterbury

Platers' Equipment
Apothecaries Hall Company Waterbury
Enthone Inc New Haven
Lea Manufacturing Co The Waterbury
MacDermid Incorporated Waterbury

Platers Metal
Plume & Atwood Mfg Co The Thomaston

Plating
Christie Plating Co The (including lead plating) Groton
Giering Metal Finishing Inc Hamden
Superior Plating Co Bridgeport
Tec-Plate Inc Windsor Locks

Plating Processes and Supplies
Enthone Inc New Haven
Seymour Manufacturing Co. The Seymour
State Testing Laboratory Inc (plating analyses) Bridgeport

Plumbers' Brass Goods
Keeney Mfg Co The (special bends) Newington
McGuire Mfg. Co. Waterbury
Scovill Manufacturing Company Waterbury

Plumbing Specialties
Risdon Manufacturing Co John M Russell Div Naugatuck

Pneumatic Conveyors
Spencer Turbine Co., The Hartford

Pole Line Hardware
Malleable Iron Fittings Co Branford

Police Equipment
The Smith-Worthington Saddery Co Hartford

Polishing
C & E Metal Finishing Co Hartford
Mirror Polishing & Buffing Co Waterbury

Postage Meters
Pitney Bowes Inc Stamford

Potentiometers—Electronic
Bristol Company The Waterbury

Precision Machine Tool Spindles
Whiton Manufacturing Co (for milling, grinding, boring & drilling) Farmington

Precision Manufacturing
Hartford Machine Screw Co Div of Standard Screw Co Hartford
Torrington Co The Torrington

Precision Revolving Machinery
Whiton Manufacturing Co Farmington

Precision Sheet Metal Fabrication
Milford Fabricating Co Milford

Precision Springs & Wire Forms
Rowley Spring Co Inc The Bristol

Premium Specialties
Waterbury Companies Inc Waterbury

Preservatives—Wood, Rope, Fabric
Darworth Incorporated ("Cuprinol") ("Cellu-san") Simsbury

Pressboard
Case & Risley Press Paper Co (genuine) Oneco

Press Papers
Case Brothers Inc Manchester

Presses
Farrel-Birmingham Company Inc (Hydraulic) Ansonia

Presses—Power
Pneumatic Applications Co The (modernization of presses through conversion to Wichita Air Clutch operation) Simsbury
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Pressure Vessels
Norwalk Tank Co Inc The (unfired to ASME Code Par U 69-70) South Norwalk
Rolock Inc Fairfield
Whitlock Manufacturing Co The Hartford

Printing
Allied Printing Service Inc Manchester
Bussmann Press Inc New Haven
Case Lockwood & Brainard A Division of Connecticut Printers Inc Hartford
City Printing Co. The New Haven
Finlay Brothers Hartford
Heminway Corporation The Waterbury
Hildreth Press Bristol
Hunter Press Hartford
Lehman Brothers Inc New Haven
Miller-Johnson, Inc. Meriden
Taylor & Greenough Co The Wethersfield
T B Simonds Inc Hartford
A D Steinbach & Sons New Haven
The Walker-Rackliff Company New Haven

Printing Machinery
Banthin Engineering Co (automatic) Bridgeport

Printing Plates
Lockwood Sons Inc Wm H Hartford

Printing Rollers
Chambers-Storck Company Inc The (engraved) Norwich

Printing—Silk Screen
Ad-Craft Displays, Inc. Bloomfield

Production Control Equipment
Ripley Company Inc Middletown
Wassell Organization Inc Westport

Profilers
Pratt & Whitney Co Inc West Hartford

Propellers—Aircraft
Hamilton Standard Div United Aircraft Corp (propellers and other aircraft equipment) Windsor Locks

Protective Coatings
Harrison Company The A S (Waxes) South Norwalk

Publishers
O'Toole & Sons Inc The Stamford

Pumps
Sumo Pumps Inc (Deep-well electro-submersible) Stamford
Yale & Towne Mfg Co The Stamford

Pumps—Small Industrial
Eastern Industries Inc New Haven

Punches
Hoggson & Pettis Mfg Co The (ticket & cloth) New Haven

Putty Softeners—Electrical
Fletcher Terry Co The Forestville

Pyrometers
Bristol Co The (recording and controlling) Waterbury

Radiation—Finned Copper
Bush Manufacturing Co West Hartford
G & O Manufacturing Company The New Haven
Vulcan Radiator Co The (steel and copper) Hartford

Radiators—Engine Cooling
G & O Manufacturing Co New Haven

Ratchet Offset Screw Driver
Chapman Co J W Durham

Rayon Staple Fiber
Hartford Rayon Corp The Rocky Hill

Reamers
Atrax Company The (solid carbide) Newington
Pratt & Whitney Co Inc (All types) West Hartford
Pratt & Whitney Co Inc (all types carbide and HSS) West Hartford

Record Equipment
Wassell Organization Inc (filing equipment) Westport

Recorders
Bristol Co The (automatic controllers, temperature, pressure, flow, humidity) Waterbury

Reduction Gears
Farrel-Birmingham Company Inc Ansonia
Snow-Nabstedt Gear Corp The New Haven

Refractories
Howard Company New Haven
Mullite Works Refractories Div H K Porter Co Inc Shelton

Refrigeration
Dunham-Bush Inc West Hartford

Research & Development
Raymond Engineering Laboratories (Electro-Mechanical) Middletown
State Testing Laboratory Inc (chemical/physical testing) Bridgeport

Resistance Wire
C O Jeliff Mfg Co The (nickel chromium, copper nickel, iron chromium, aluminum) Southport
Kanathal Corporation The Stamford

Respirators
American Optical Company Safety Products Division Putnam

Retainers
Hartford Steel Ball Co The (bicycle & automotive) Hartford

Rigid Plastic Sheet Material
Gilman Brothers Company The Gilman

Riveting Machines
Grant Mfg & Machine Co The Bridgeport
Linley Brothers Company Bridgeport
Ripley Company Inc Middletown
H P Townsend Manufacturing Co The Elmwood

Rivets
Clark Brothers Bolt Co Milldale
Plume & Atwood Mfg Co The Thomaston
Raybestos Div of Raybestos-Manhattan Inc The (brass and aluminum tubular and solid copper) Bridgeport
Raybestos Div of Raybestos-Manhattan Inc The (iron) Bridgeport

Rods
American Brass Company The (copper, brass, bronze) Waterbury
Bridgeport Brass Company Bridgeport
Bristol Brass Corp The (brass and bronze) Bristol
Scovill Manufacturing Company (aluminum, brass, bronze, etc.) Waterbury

Rollers—Bituminous Paving
Gabb Special Products Div E Horton & Son Company Windsor Locks

Roller Skate Wheels
Raybestos Division of Raybestos-Manhattan Inc Bridgeport

Rolling Mills & Equipment
Farrel-Birmingham Company Inc Ansonia
Fenn Mfg Co The Newington
Precision Methods & Machines Inc Waterbury
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Rolls
Farrel-Birmingham Company Inc (Chilled and Alloy Iron, Steel) Ansonia

Roofing
Lurie Inc A Bloomfield

Rotary Files
Atrax Company The (carbide) Newington

Routers
Atrax Company The (solid carbide) Newington

Rubber Chemicals
Naugatuck Chemical Division United States Rubber Co Naugatuck
Stamford Rubber Supply Co The ("Factice" Vulcanized Vegetable Oils) Stamford

Rubber Cutting Machinery
Black Rock Mfg Co The Bridgeport

Rubberized Fabrics
Duro-Gloss Rubber Co The New Haven

Rubber Footwear
Goodyear Rubber Co The Middletown

Rubber Gloves
Seamless Rubber Company The New Haven

Rubber—Handmade Specialties
Seamless Rubber Company The New Haven

Rubber Latex Compounds and Dispersions
Naugatuck Chemical Division United States Rubber Co (coating, impregnating and adhesive compounds) Naugatuck (Advt.)

Rubber Mill Machinery
Farrel-Birmingham Company Inc — Ansonia

Rubber—Molded Specialties
Airex Rubber Prod Corp — Portland
Associated Gaskets, Inc. — Bridgeport
Bond Rubber Corporation — Derby
Seamless Rubber Company The — New Haven

Rubber Products
Airex Rubber Prod Corp — Portland

Rubber Printing Plates
ADS Inc Div CSW Plastic Types Inc — Hartford
Lockwood Sons Inc Wm H — Hartford

Rubber Products—Mechanical
American Felt Co — Glenville
Associated Gaskets, Inc. — Bridgeport
Auburn Manufacturing Company The (washers, gaskets, molded parts) — Middletown
Seamless Rubber Company The — New Haven

Rubber—Reclaimed
Naugatuck Chemical Division United States Rubber Co — Naugatuck

Rubbers
Naugatuck Chemical Div U S Rubber Co (synthetic rubbers and latex) — Naugatuck

Rubbish Burners
John P Smith Co The — New Haven

Rust Preventives
Anderson Oil and Chemical Company, Inc — Portland
Enthone Inc — New Haven

Rust Removers
Enthone Inc — New Haven

Saddlery
The Smith-Worthington Saddlery Co — Hartford

Safety Belts
Russell Mfg Co — Middletown

Safety Clothing
American Optical Company Safety Products Division — Putnam

Safety Fuses
Ensign-Bickford Co The (mining & detonating) — Simsbury

Safety Gloves and Mittens
American Optical Company Safety Products Division — Putnam

Safety Goggles
American Optical Company Safety Products Division — Putnam

Saw Blades—Hack
Capewell Mfg Co The — Hartford
Thompson & Son Co The Henry G — New Haven

Saw Blades—Hack & Band
Capewell Manufacturing Company — Hartford

Saws, Band, Metal Cutting
Atlantic Saw Mfg Co — New Haven
Capewell Manufacturing Co The — Hartford
Thompson & Son Co The Henry G — New Haven

Saws—Hole
Capewell Manufacturing Co The — Hartford
Thompson & Son Co The Henry G — New Haven

Sawdust
Nielsen & Sons Inc John R (graded hardwood and softwood) — South Windsor

Scissors
Acme Shear Company The — Bridgeport

Screens
Hartford Wire Works Co The (Windows, Doors and Porches) — Hartford
Norlee Aluminum Prod Corp — Bloomfield

Screw Caps
Weimann Bros Mfg Co The (small for bottles) — Derby

Screw Machines
H P Townsend Mfg Company The — Elmwood

Screw Machine Products
Accurate Screw Products Inc (B & S Swiss & Davenports) — Southington
Apex Tool Co Inc The — Bridgeport
Auto Electric Screw Machine Co Inc — Bridgeport
Brown Manufacturing Co (up to 1½" capacity) — New Britain
Consolidated Industries — West Cheshire
Eastern Machine Screw Corp The — New Haven
Fairchild Screw Products Inc — Winsted
Franklin Screw Machine Co The (up to 1½" capacity) — Hartford
Garthwait Mfg Co A E (up to and incl ¼") — Greist Mfg Co The (up to 1½" capacity) — New Haven
Hartford Machine Screw Co Div of Standard Screw Co (up to 5" capacity) — Hartford
Horberg Grinding Industries Inc (heat treated and ground type only) — Bridgeport

Screw Machine Products (Cont.)
Stanley Humason Inc — Forestville
Independent Screw Machine Products (up to and incl 1¼" capacity) — Hartford
Junior Screw Machine Products Inc — West Haven
Lowe Mfg Co The — Wethersfield
Main Screw Machine Products (davenport & automatics exclusively) — Waterbury
National Automatic Products Company The — Berlin
Nelson's Screw Machine Products — Plantsville
New Britain Machine Company The — New Britain
New Haven Screw Machine Prods Inc (up to 1¼" capacity) — Milford
Newton Screw Machine Products Co — Plainville
Olson Brothers Company (up to ¾" capacity) — Plainville
Olson & Sons R P — Southington
Plume & Atwood Mfg Co The — Thomaston
Scovill Manufacturing Company — Waterbury
United Screw Machine Co — Thomaston
Waterbury Machine Tools & Products Co (Brown & Sharpe and Davenport) — Waterbury

Screw Machine Tools
American Cam Company Inc (Circular Form Tools) — Hartford
Pratt & Whitney Co Inc Reamers, Taps, Dies, Blades and Knurls) — West Hartford
Somma Tool Co (precision circular form tools) — Waterbury

Screws
Allen Manufacturing Company The — Hartford
American Screw Company — Willimantic
Atlantic Screw Works (wood) — Hartford
Bristol Company The (socket set and socket cap screws) — Waterbury
Clark Brothers Bolt Co — Milldale
Hartford Machine Screw Co Div of Standard Screw Co — Hartford
Holo-Krome Screw Corporation The (socket set and socket cap) — West Hartford
Scovill Manufacturing Company — Waterbury
Superior Manufacturing Co The — Winsted
Torrington Co The — Torrington

Screws—Socket
Allen Manufacturing Company The — Hartford
Bristol Co The — Waterbury
Hartford Machine Screw Co Div of Standard Screw Co — Hartford
Holo-Krome Screw Corp The — West Hartford

Sealing Tape Machines
Better Packages Inc ("Counterboy," "Tapeshooter," "Big Inch") — Shelton
Derby Sealers Inc (gummed and pressure-sensitive tapes) — Derby

Seals
Russell Mfg Co (for oven doors and fire bulkheads) — Middletown

Sewing Machines
Greist Mfg Co The (Sewing Machine attachments) — New Haven
Singer Manufacturing Company The (industrial) — Bridgeport

Sharpeners
Gorn Electric Co Inc (electric knife and scissors) — Stamford

Shaving Soaps
J B Williams Co The — Glastonbury

Shears
Acme Shear Co The (household) — Bridgeport

Sheet Metal Fabrications
Lurie Inc A — Bloomfield

Sheet Metal Products
American Brass Co The (brass and copper) — Waterbury
Merriam Mfg Co (security boxes, fitted tool boxes, tackle boxes, displays) — Durham
Parsons Co Inc W A (fabricators) — Durham
Plume & Atwood Mfg Co The — Thomaston
United Manufacturing Co Division of the W L Maxson Corp — Hamden

Sheet Metal Stampings
American Brass Company The — Waterbury
American Buckle Co The — West Haven
DooVal Tool & Mfg Inc The — Naugatuck
J H Sessions & Son — Bristol
Plume & Atwood Mfg Co The — Thomaston
Scovill Manufacturing Company (aluminum, brass, bronze, copper, nickel silver, steel and other metals and alloys) — Waterbury
Terryville Mfg Co The — Terryville

Sheet Steel
Dolan Steel Company Inc — Bridgeport

Shell Cores
Victors Brass Foundry Inc — Guilford

Shell Molding
Victors Brass Foundry Inc — Guilford

Shells
Scovill Manufacturing Company (aluminum, brass, bronze, copper, nickel silver—drawn, stamped—electric socket, screw) — Waterbury
Terryville Mfg Co The — Terryville
Wolcott Tool and Manufacturing Company Inc — Waterbury

Showcase Lighting Equipment
Wiremold Company The — Hartford

Signals
H C Cook Co The (for card files) — Ansonia

Signs
Ad-Craft Displays, Inc. (all types, quantity only) — Bloomfield
Conn-Craft Co. (3 Dimensional, Plastic, Metal & Wood) — Waterbury

Silk Screen Process Printing
Ad-Craft Displays Inc — Bloomfield
Norton Co R H — New Haven
Sirocco Screen prints — New Haven
Stifel & Kufta Inc — New Britain

Silk Screening on Metal
Ad-Craft Displays Inc — Bloomfield
Merriam Mfg Co (Displays and Specialties, to order) — Durham

Silverware
Wallace Silversmiths, Inc. — Wallingford

Simulators
Reflectone Electronics, Inc. — Stamford

Sintered Metal Products
American Sinterings Div of Engineered Plastics Inc (Powder Metal Parts) — Watertown
Raybestos Division of Raybestos-Manhattan Inc — Bridgeport

Sizing and Finishing Compounds
American Cyanamid Company — Waterbury

Slide Fasteners
G E Prentice Mfg Co The — Kensington
Scovill Manufacturing Company (GRIPPER zippers) — Waterbury

Smoke Stacks
Bigelow Company The (steel) — New Haven
Norwalk Tank Co The — South Norwalk

Snap Fasteners
Scovill Manufacturing Company (GRIPPER snap fasteners) — Waterbury

Soap
J B Williams Co The (industrial soaps, toilet soaps, shaving soaps) — Glastonbury

Sound Equipment
Vinco Electronics Corporation — New Haven

Special Machinery
Banthin Engineering Company (complete and/or parts) — Bridgeport
Black Rock Mfg Co The — Bridgeport
Farrel-Birmingham Company Inc — Ansonia
Federal Machine & Tool Co — Bristol
Fenn Mfg Co The — Newington
Hartford Special Machinery Co The — Hartford
H P Townsend Mfg Company The — Elmwood
National Sheradizing & Machine Co (mandrels & stock shells for rubber industry) — Hartford
Swan Tool & Machine Co The — Hartford
Tucker Machine Co — New Haven

Special Parts
Fenn Mfg Co The — Newington
Greist Mfg Co The (small machines, especially precision stampings) — New Haven
Hartford Machine Screw Company Div of Standard Screw Co — Hartford
J H Sessions & Son — Bristol
Torrington Co The — Torrington

Spinnings
Gray Manufacturing Company The — Hartford

Spline Milling Machines
Townsend Mfg Co The H P — Elmwood

Spotwelding
Spotwelders Inc (aluminum, steel, magnesium, titanium & alloys) — Stratford

Spray Painting Equipment and Supplies
Lea Manufacturing Co The — Waterbury

Spring Coiling Machines
Torrington Manufacturing Co The — Torrington

Spring Presses
Townsend Mfg Co The H P — Elmwood

Spring Units
Owen Silent Spring Division American Chain & Cable Company Inc — Bridgeport

Spring Washers
Barnes Co The Wallace Div Associated Spring Corp — Bristol
Terryville Mfg Co The — Terryville

Springs
Central Spring Co (Torsion and Double Torsion) — Terryville

Springs—Coil & Flat
Barnes Co The Wallace Div Associated Spring Corp — Bristol
Barrett Co William L — Bristol
Bristol Spring Manufacturing Co — Plainville
Foursome Manufacturing Co — Bristol
Newcomb Spring Corp The — Southington
New England Spring Mfg Co — Unionville
Peck Spring Co The — Plainville
Stanley Humason Inc — Forestville

Springs—Flat
Atlantic Precision Spring Co — Forestville
Barnes Co The Wallace Div Associated Spring Corp — Bristol
Bristol Spring Manufacturing Co — Plainville
Foursome Manufacturing Co — Bristol
Stanley Humason Inc — Forestville
New England Spring Mfg. Co. — Unionville
Peck Spring Co — Plainville
(Advt.)

Springs—Wire
Banner Spring Corporation Hartford
Barnes Co The Wallace Div Associated Spring Corp Bristol
Bernston Co J W Plainville
Bristol Spring Manufacturing Co Plainville
Colonial Spring Corporation The Hartford
Connecticut Spring Corporation The (compression, extension, torsion) Hartford
Foursome Manufacturing Co Bristol
Stanley Humason Inc Forestville
Newcomb Spring Corp The Southington
New England Spring Mfg. Co. Unionville
Peck Spring Co Plainville
D R Templeman Co (coil and torsion) Plainville

Springs, Wire & Flat
Peck Spring Co Plainville

Sprinklers
Scovill Manufacturing Company (GREEN SPOT) Waterbury

Stamped Metal Products
American Brass Company The Waterbury

Stampings
DooVal Tool & Mfg Inc The Naugatuck
Foursome Manufacturing Co Bristol
Plume & Atwood Mfg Co The (small) Thomaston
Scovill Manufacturing Company (aluminum, brass, bronze, copper, nickel silver, steel and other metals and alloys—automotive, electrical, radio, etc.—deep drawn, enameled) Waterbury
Stanley Pressed Metal New Britain

Stampings—Small
Acme Shear Co The Bridgeport
Barnes Co The Wallace Div Associated Spring Corp Bristol
Barret Co William L Bristol
Bristol Spring Manufacturing Co Plainville
Greist Manufacturing Co The New Haven
Stanley Humason Inc Forestville
Wire Form Inc Milldale

Stamps
Bell-Adam Steel Stamp Co. (steel) New Britain
Hoggson & Pettis Mfg Co The (steel) New Haven
Parker-Hartford Corporation (steel) Hartford
Schwab & Company (steel) Bridgeport

Stationery Specialties
American Brass Company The Waterbury

Steel Castings
Hartford Electric Steel Corp The (carbon, low alloy and stainless steel castings) Hartford
Malleable Iron Fittings Co Branford
Nutmeg Crucible Steel Co Branford

Steel—Cold Rolled Spring
Barnes Co The Wallace Div Associated Spring Corp Bristol
Detroit Steel Corporation Hamden

Steel—Cold Rolled Stainless
Seymour Manufacturing Co. The Seymour
Ulbrich Stainless Steels Wallingford
Wallingford Steel Company Wallingford

Steel—Cold Rolled Strip
Detroit Steel Corporation Hamden

Steel—Cold Rolled Strip and Sheets
Wallingford Steel Company Wallingford

Steel Goods
Merriam Mfg Co (sheets products to order) Durham

Steel—Ground Flat Stock
Thompson & Son Co The Henry G New Haven

Steel Rolling Rules
Waterbury Lock & Specialty Co The Milford

Steel Stamps
Cooney Engraving Co Branford

Stereotypes
New Haven Electrotype Div Electrographic Corp New Haven

Stop Clocks, Electric
H C Thompson Clock Co the Bristol

Storage Batteries
R A E Storage Battery Mfg Co Glastonbury

Straps, Leather
Auburn Manufacturing Company The (textile, industrial, skate, carriage) Middletown

Strip Steel
Detroit Steel Corporation New Haven
Dolan Steel Company Inc Bridgeport

Structural Mouldings
Leed Co The H A Hamden

Studio Couches
Waterbury Mattress Co Waterbury

Super Refractories
Mullite Works Refractories Div H K Porter Co Inc Shelton

Surface Metal Raceway & Fittings
Wiremold Company The Hartford

Surgical Dressings
Acme Cotton Products Co Inc East Killingly
Seamless Rubber Company The New Haven

Surgical Rubber Goods
Seamless Rubber Company The New Haven

Swaging Machinery
Fenn Mfg Co The Newington
Torrington Co The Torrington
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Sweeping Compounds
Nielsen & Sons Inc John R South Windsor

Switchboards Wire and Cables
Rockbestos Products Corp (asbestos insulated) New Haven

Switches—Electric
General Electric Company Bridgeport

Synthetic Fabrics
American Felt Co Glenville

Tableware—Stainless Steel
Wallace Silversmiths, Inc. Wallingford

Tableware—Sterling Silver
Wallace Silversmiths, Inc. Wallingford

Tabulating Equipment—Manual
Denominator Company Inc Woodbury
Veeder-Root Incorporated Hartford

Tanks
Acme Welding Div United Tool & Die Co West Hartford
Bigelow Company The (steel) New Haven
Comco Inc Div of Enthone Inc (steel, alloy and lined) New Haven
Colonial Blower Co (steel and alloy) Plainville
Connecticut Welders Inc (steel, alloy & lined) Wallingford
Enthone Inc New Haven
King Co Alfred B (steel, alloy and lined) North Haven
Norwalk Tank Co The South Norwalk
Rolock Inc (Alloy) Fairfield
Storts Welding Company (steel and alloy) Meriden

Tap Extractors
Walton Company The West Hartford

Tape
Russell Mfg Co (Glass Electrical Insulating Tapes, Glass Fabrics for Plastic Moulding) Middletown

Tapes—Industrial Pressure Sensitive
Seamless Rubber Company The New Haven

Tape Machines
Better Packages Inc (Manual and electric models for case taping) Shelton
Derby Sealers Inc (manual and electric models) Derby

Taps
Hanson-Whitney Company The Hartford
Pratt & Whitney Co Inc West Hartford

Tarred Lines
Brownell & Co Inc Moodus

Telemetering Instruments
Bristol Co The Waterbury

Television—Radio
Junior Screw Machine Products Inc West Haven

Testers—Insulation
McNeal J D New Haven

Testers—Insulation Wire & Cable
Davis Electric Company Wallingford

Testers—Nondestructive, Ultrasonic
Sperry Products Inc Danbury

Testing
State Testing Laboratory Inc (environmental, X-ray, tensile, bearings) Bridgeport

Textile Printing Gums
Polymer Industries Inc Springdale

Textile Processors
Amerbelle Corporation Rockville

Thermometers
Bristol Co The (recording and automatic control) Waterbury
Manning Maxwell & Moore Inc Stratford

Thin Gauge Metals
Plume & Atwood Mfg Co The Thomaston
Thinsheet Metals Co The (plain or tinned in rolls) Waterbury

Thread
American Thread Co The Willimantic
Belding Heminway Corticelli Putnam

Thread Chasers
Geometric Tool Division, Greenfield Tap & Die Corp New Haven

Thread Gages
Hanson-Whitney Company The Hartford
Pratt & Whitney Co Inc West Hartford

Thread Milling Machines
Pratt & Whitney Co Inc West Hartford

Thread Rolling
Bland Burner Co The Thread Products Div Hartford

Thread Rolling Machinery
Hartford Special Machinery Co The Hartford
Mettler Machine Tool Inc New Haven
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc Waterbury

Threading Machines
Grant Mfg & Machine Co The (double end automatic) Bridgeport

Timers, Interval
A W Haydon Co The Waterbury
H C Thompson Clock Co The Bristol
Cramer Controls Corporation The Centerbrook
Rhodes Inc M H Hartford

Timing Devices
B & N Tool & Engineering Co (development and model work) Thomaston
Cramer Controls Corporation The Centerbrook
A W Haydon Co The Waterbury
Lux Clock Manufacturing Company Waterbury
Rhodes Inc MH Hartford
United States Time Corporation The Waterbury

Timing Devices & Time Switches
A W Haydon Co The Waterbury
Lux Clock Manufacturing Company Waterbury
M H Rhodes Inc Hartford

Tinning
Thinsheet Metals Co The (non-ferrous metals in rolls) Waterbury
Wilcox-Crittenden Div North & Judd Mfg Co Middletown

Tires
Armstrong Rubber Company The West Haven

Tokens
Scovill Manufacturing Company (bus, street car and subway fare) Waterbury

Tool Bits
Thompson & Son Co The Henry G New Haven

Tool Chests
Vanderman Manufacturing Co The Willimantic

Tool Hardening
Commercial Metal Treating Co Bridgeport

Tools
B & N Tool & Engineering Co (dies, jigs, fixtures, sub-press and progressive) Thomaston
Hoggson & Pettis Mfg Co The (rubber workers) 141 Brewery St New Haven

Tools & Dies
Metropolitan Tool & Die Hartford
Moore Special Tool Co Bridgeport
Swan Tool & Machine Co The Hartford

Tools, Dies & Fixtures
Greist Mfg Co The New Haven

Tools, Dies, Jigs & Fixtures
Lyons Tool & Die (modelwork, jig boring) Meriden
Otterbein Co J A Middletown
Telke Tool & Die Mfg Co Kensington

Tools, Fixtures, Gauges
Fredericks Tool Co J F West Hartford

Totalizers
Reflectone Electronics, Inc. Stamford

Toys
Geo S Scott Mfg Co The Wallingford
Gilbert Co The A C New Haven
N N Hill Brass Co The East Hampton
Terryville Mfg Co The (stampings for) Terryville
Waterbury Companies Inc Waterbury

Transformers
Monarch Electric Co (Allis Chalmers) New Britain

Trucks—Commercial
Metropolitan Body Company (International Harvester Truck chassis and "Metro" bodies) Bridgeport

Truck—Lift
Excelsior Hardware Co The Stamford

Trucks—Skid Platforms
Excelsior Hardware Co The (lift) Stamford

Tube Clips
H C Cook Co The (for collapsible tubes) Ansonia
Weimann Bros Mfg Co The (for collapsible tubes) Derby

Tube Fittings
Scovill Manufacturing Company (UNIFLARE flared tube and LOXIT compression tube) Waterbury

Tubers
Standard Machinery and Davis-Standard Divisions of Franklin Research Corp Mystic (Advt.)

Tubes—Collapsible Metal
Sheffield Tube Corp The — New London

Tubing
American Brass Co The (brass and copper) — Waterbury
G & O Manufacturing Co (finned) — New Haven
Scovill Manufacturing Company (Brass and Copper) — Waterbury
Wallingford Steel Co The (stainless and super metals) — Wallingford

Tubing—Flexible Metallic
American Brass Co Metal Hose Branch — Waterbury

Tubing—Heat Exchanger
American Brass Company The — Waterbury
Scovill Manufacturing Company — Waterbury

Tumbling Barrels and Accessories
Nielsen & Sons Inc John R — South Windsor

Tumbling Equipment and Supplies
Esbec Barrel Finishing Corp — Byram

Tumbling Service
Esbec Barrel Finishing Corp — Meriden

Turntables
Macton Machinery Company Inc (industrial & display) — Stamford

Typewriters
Royal McBee Corp — Hartford
Underwood Corporation — Hartford

Typewriters—Portable
Underwood Corporation — Hartford

Typewriter Ribbons and Supplies
Royal McBee Corp — Hartford
Underwood Corporation — Hartford and Bridgeport

Ultrasonic Processing Equipment
General Ultrasonics Co The — Hartford

Underclearer Rolls
Sonoco Products Co (Climax-Lowell Div) — Mystic

Uniforms
Magson Uniform Co. — Kensington

V-Belt Drives
Monarch Electric Co (Allis Chalmers) — New Britain

Valves
Jenkins Bros — Bridgeport

Vacuum Bottles and Containers
American Thermos Products Co — Norwich

Vacuum Cleaners
Electrolux Corporation — Old Greenwich
Spencer Turbine Co The — Hartford

Valves—Aircraft
Bridgeport Thermostat Div Robertshaw-Fulton Controls Co — Milford

Valves—Relief & Control
Beaton & Caldwell Mfg Co — New Britain

Valves—Safety & Relief
Manning Maxwell & Moore Inc — Stratford

Vanity Boxes
Bridgeport Metal Goods Mfg Co — Bridgeport
Plume & Atwood Manufacturing Co — Thomaston
Scovill Manufacturing Company — Waterbury

Velvets
American Velvet Co (owned and operated by A Wimpfheimer & Bros Inc) — Stonington
Leiss Velvet Mfg Co Inc The — Willimantic

Venetian Blinds
Findell Manufacturing Company — Manchester
Jennings Company The S Barry — New Haven

Ventilating Systems
Colonial Blower Company — Plainville
Ventilating Supplies Inc — Plainville

Vertical Shapers
Pratt & Whitney Co Inc — West Hartford

Vibrators—Pneumatic
Branford Co The (industrial) — New Britain

Vinyl Extrusion & Moulding Compounds
Electronic Rubber Co — Stamford

Vises
Fenn Manufacturing Company The (Quick-Action Vises) — Newington
Vanderman Manufacturing Co The (Combination Bench Pipe) — Willimantic

Wall Paper
Stamford Wall Paper Co Inc — Stamford

Washers
American Felt Co (felt) — Glenville
Auburn Manufacturing Company The (all materials) — Middletown
Clark Brothers Bolt Co — Milldale
Fabricon Corp — Unionville
Plume & Atwood Mfg Co The (brass & copper) — Thomaston
Saling Manufacturer Company (made to order) — Unionville
Terryville Mfg Co The (made to order—all metals) — Terryville

Washers—Felt
American Felt Co — Glenville
Chas W House & Sons Inc (Mills & Cutting Plant) — Unionville

Watches
E Ingraham Co The — Bristol
United States Time Corporation The — Waterbury

Water Deionizers
Penfield Mfg Co — Meriden

Water Heaters
Whitlock Manufacturing Co The (instantaneous & storage) — Hartford

Water Heaters— Electric
Bauer & Company Inc — Hartford

Water Heaters—Gas or Kerosene
Holyoke Heater Corp of Conn Inc — Hartford

Waxes
Harrison Company The A S (and other protective coatings) — South Norwalk

Waxes—Floor
Fuller Brush Co The — Hartford

Webbing
Russell Mfg Co (Webbing for Safety Seat Belts—all types of webbing) — Middletown

Wedges
Saling Manufacturing Company (hammer & axe) — Unionville

Welded Products
Acme Welding Div United Tool & Die Co — West Hartford

Welding
Aircraft Welding & Mfg Co Inc (aluminum, stainless steel, magnesium) — Hartford
Ansonia Steel Fabrication Co., Inc., (steel, stainless steel and aluminum fabrication) — Ansonia
Connecticut Welders Inc (fabrication & repairs) — Wallingford
Farrel-Birmingham Company Inc — Ansonia
Industrial Welding Company (Equipment Manufacturers—Steel Fabricators) — Hartford
King Co Alfred B — North Haven

Welding—Lead
Connecticut Welders Inc (tanks & coils) — Wallingford
King Co Alfred B — North Haven
Lead Products, Inc. (tanks and fabrication) — Manchester
Storts Welding Company (tanks and fabrication) — Meriden

Welding—Lead Bricks
Lead Products, Inc. — Manchester

Welding Rods
American Brass Company The — Waterbury
Bridgeport Brass Company — Bridgeport
Bristol Brass Co The (brass & bronze) — Bristol

Welding Solder
Lead Products, Inc. (wire, bar and cakes and babbits) — Manchester

Wells
Church Co The Stephens B — Seymour

Wicks
American Felt Co — Glenville
Auburn Manufacturing Company The (felt, asbestos) — Middletown
Holyoke Heater Corp of Conn Inc — Hartford

Wiffle Ball
Wiffle Ball Inc The — New Haven

Window & Door Guards
Hartford Wire Works Co The — Hartford
Smith Co The John P — New Haven

Wire
American Brass Company The — Waterbury
Atlantic Wire Co The (steel) — Branford
Bartlett Hair Spring Wire Co The — North Haven
Bristol Brass Corp The (brass & bronze) — Bristol
Driscoll Wire Co The (steel) — Shelton
Hudson Wire Co Winsted Div (insulated & enameled magnet) — Winsted
Platt Bros & Co The (zinc and zinc alloy wires) — Waterbury
Plume & Atwood Mfg Co The (brass, bronze, nickel silver) — Thomaston
Scovill Manufacturing Company (Brass, Bronze and Nickel Silver) — Waterbury

Wire and Cable
Continental Wire Corp (for industrial and military applications) — Wallingford
General Electric Company (for residential, commercial and industrial applications) — Bridgeport
Rockbestos Products Corporation (all asbestos, mining, shipboard and appliance applications) — New Haven
(Advt.)

Wire Arches & Trellises
Hartford Wire Works Co The — Hartford
John P Smith Co The — New Haven

Wire Baskets
Rolock Inc — Fairfield
Wiretex Mfg Inc (Industrial, for acid, heat, treating and degreasing) — Bridgeport

Wire Cloth
Hartford Wire Works Co The — Hartford
C O Jeliff Mfg Co The (all metal, all meshes) — Southport
Pequot Wire Cloth Co Inc — Norwalk
Rolock Inc (Alloy) — Fairfield
Smith Co The John P — New Haven

Wire Dipping Baskets
Hartford Wire Works Co The — Hartford
John P Smith Co The — New Haven

Wire Forming Machinery
Nilson Machine Company The A H — Shelton
Torrington Manufacturing Company The — Torrington

Wire Formings
Master Engineering Company — West Cheshire
North & Judd Manufacturing Co — New Britain
Peck Spring Co — Plainville
Turner & Seymour Manufacturing Co The — Torrington

Wire Forms
Atlantic Precision Spring Co — Forestville
Banner Spring Corporation — Hartford
Barnes Co The Wallace Div Associated Spring Corp — Bristol
Bristol Spring Manufacturing Co — Plainville
Central Spring Co (short run orders) — Terryville
Colonial Spring Corporation The — Hartford
Connecticut Spring Corporation The — Hartford
Foursome Manufacturing Co — Bristol
Gemco Manufacturing Co Inc — Southington
Stanley Humason Inc — Forestville
New England Spring Mfg Co — Unionville
Peck Spring Co — Plainville
Templeman Co D R — Plainville
Terryville Manufacturing Co — Terryville
Wire Form Inc — Milldale

Wire Goods
American Buckle Co The (overall trimmings) — West Haven
Patent Button Co The — Waterbury
Scovill Manufacturing Company (To Order) — Waterbury

Wire Partitions
Hartford Wire Works Co The — Hartford
John P Smith Co The — New Haven

Wire Products
Stanley Humason Inc — Forestville
Peck Spring Co — Plainville
Plume & Atwood Mfg Co The (to order) — Thomaston

Wire Reels
Mettler Machine Tool Inc — New Haven
Nilson Machine Company The A H — Shelton
Waterbury Farrel Foundry & Machine Co The Division of Textron Inc — Waterbury

Wire Rings
American Buckle Co The (pan handles and tinners' trimmings) — West Haven
Stanley Humason Inc — Forestville
Peck Spring Co — Plainville
Templeman Co D R — Plainville

Wire—Specialties
Andrew B Hendryx Co The — New Haven

Wire Springs
Carlson Spring Company (Torsion, Compression, Extension) — Berlin

Wire Straightening and Cutting Machinery
Mettler Machine Tool Inc — New Haven

Wiring Devices
Harvey Hubbell Inc — Bridgeport

Wood Scrapers
Fletcher-Terry Co The — Forestville

Woodwork
C H Dresser & Sons Inc (Mfg all kinds of woodwork) — Hartford
Hartford Builders Finish Co — Hartford

Woven Felts—Wool
Chas W House & Sons Inc (Mills & Cutting Plant) — Unionville

Yarns
Aldon Spinning Mills Corporation The (fine-woolen and specialty) — Talcottville
Ensign-Bickford Co The (jute-carpet) — Simsbury

Zinc
Platt Bros & Co The (ribbon, strip and wire) P O Box 1030 — Waterbury

Zinc Castings
Newton-New Haven Co Inc — West Haven

Zinc Die Castings
Mt Vernon Die Casting Corporation — Stamford
Stewart Die Casting Div Stewart-Warner Corp — Bridgeport

COLONIAL

Industrial Ventilating and Dust Collecting Equipment

Fans and Blowers
All Types Dust Collectors

We specialize in the design, manufacture and installation of complete dust collecting, ventilating, fume removal and conveying systems for industry.

Our engineering staff is at your service.

Write or Phone

THE COLONIAL BLOWER CO.

54 Lewis St.
Plainville, Conn.
Phone Sherwood 7-2753

BLOWER CO. COLONIAL PLAINVILLE CONN.

Awards Given For Top "Business Tips" Articles

(Continued from page 44)

continue to prefer anonymity to publicity.

The first prize of $100 was given to Thomas L. Davidson for his article entitled "The Effect of Leasing on the Seller." The second prize, a $50 check, was awarded to A. D. Joseph Emerzian for his article, "Some Principles For The Organization of Cost Reduction." The third prize of $25 was given to Edward O. Jordan for his article on "Tomorrow's Managers."

Other contributors to the Business Tips department whose articles appeared during this period were: George Asherman, former Associate Professor of Business Administration; C. H. Scott McAlister, Instructor in Insurance; Carl J. Gladfelter, Associate Professor of Marketing; Zenon S. Malinowski, Associate Professor of Marketing; Lawrence P. Webster, Associate Professor of Accounting; Ruth B. Filip, Associate Professor; Harry D. Kerrigan, Professor of Accounting; Roland B. Smith, Associate Professor of Advertising, and William N. Kinnard, Jr., Head, Business Department.

Articles have been contributed continuously to the Business Tips department by staff members of the University's School of Business Administration ever since the department was inaugurated in 1948.

Spotlight On The Future

(Continued from page 47)

say they are having to pay a little more for the items they buy, 59% report no change, and 5% say their prices are lower.

Spectific Commodity Changes

The continuing strike by the Mine Mill Union, bargaining for the bulk of the copper industry workers, is fast creating a critical situation in this commodity. The steel strike has so overshadowed the copper problem that many have not been aware of the serious shortage of copper that is developing. While prices generally are steady, there are more of our members reporting increases than decreases. This is also reflected in a recent Washington announcement that the cost of living is at an all-time peak.

On the *up* side are: Brass, copper, steel (gray market), steel scrap, zinc, corrugated cartons, natural rubber, tungsten and die castings.

On the *down* side are: Electrical equipment and mercury.

In *short* supply: Copper, most steel items, coal tar chemicals, phthalate esters, malmeic anhydride and benzene.

Advertising Index

Acme Surplus Containers	47
Albee-Campbell, Inc.	32
Allen, Russell & Allen	3 & 24
Anderson Associates	24
Anderson-Nichols, Inc.	17
Auburn Manufacturing Company	28
Ballard Oil Company	Outside Back Cover
Bavier, Bulger & McCullough	23
Boston Envelope Co.	36
Burmeister & Wain American Corp.	46
Chase Brass & Copper Co.	18
Church Co., The Stephen B.	39
Clark Bros. Bolt Co.	21
Colonial Blower Co.	32 & 60
Commercial Metal Treating, Inc.	46
Connecticut Bank & Trust Co.	19
Connecticut Medical Service	25
Connecticut Utility Companies	Inside Back Cover
Copeland Co., Inc.	31
Curtis 1000, Inc.	41
Detroit Steel Corp.	38
Dolge Co., The C. B.	22
DooVal Tool & Mfg., Inc.	36
Dowd, Wyllie & Olson, Inc.	32
Eastern Elevator Co.	45
Eastern Steel & Metal Co.	26
Feldman Glass Co.	32
Flint Co., A. W.	29
Fuller Brush Company	30
Grimes Engineering Co.	20
Gross & Associates, Inc., Julian	24
Hall Co., George D.	31
Hildreth Press	2
Howard Company	18
Infra Red Heating	44
Jones Co., T.A.D.	4
Mills, Inc., H. J.	18
Morrissey & Cheney	41
New Haven Electrotype Div., Electrographic Corp.	43
North Haven Lumber Company	24
Norwalk Powdered Metals	40
Nutmeg Crucible Steel Co.	18
Page, Robert W.	41
Plasticrete Corp.	37
P.O. Box 6153	32
Rogers Manufacturing Co.	47
Rudder Window Cleaning, Inc.	24
Sirocco Screenprints	28
Souther Engineering Co.	18
Southern New England Telephone Company	Inside Front Cover
Spolen Magazines	27
Storts Welding Co.	27
Suburban Propane Gas Corp.	42
Swan Tool & Machine Co.	32
Thompson & Co., Henry G.	20
Torrington Manufacturing Co.	26
Travelers Insurance Co.	34
Ventilating Supplies, Inc.	24
Waterbury Pressed Metals	23
Waverly Inn, Inc.	18
Wiremold Company	26
Wirth Management Company	33
Wittstein, Jack	47
Wyatt, Inc.	16
Yale & Towne Mfg. Co.	47

BARDEN PRECISION BALL BEARINGS

DANBURY, CONN.

Final Parts Inspection at The Barden Corp.

Operators in special dress use Pratt & Whitney "Electrolimit" gages to measure outside diameter and width of bearing rings. Gages have an accuracy of 20 millionths of an inch.

ELECTRICITY IS VITAL TO SUPER PRECISION

Super precision ball bearings are manufactured by The Barden Corporation to provide high performance and reliability in electronic equipment, computers, missiles, and aircraft. They must be produced to rigid standards under closely controlled conditions.

Super precision is required in manufacturing and in checking dimensions of bearing parts. Super cleanliness of each bearing part and of the final product is necessary to insure proper performance in highly sensitive applications.

Yes, electricity is vital to Barden's high precision manufacture. Electricity provides high level lighting for critical areas, and electrostatic cleaning of air for super-clean areas. Air handling equipment is electrically operated and controlled to maintain 75° F and relative humidity not exceeding 40% in critical areas. Extremely precise gages and electronic test equipment are electrically operated. Bearing parts are electrically heat treated to obtain specified hardness and dimensional stability.

Electricity helps Barden to high-efficiency production and profits—most likely it can help you, too. A representative from your electric power company will be glad to consult with you. Phone him today.

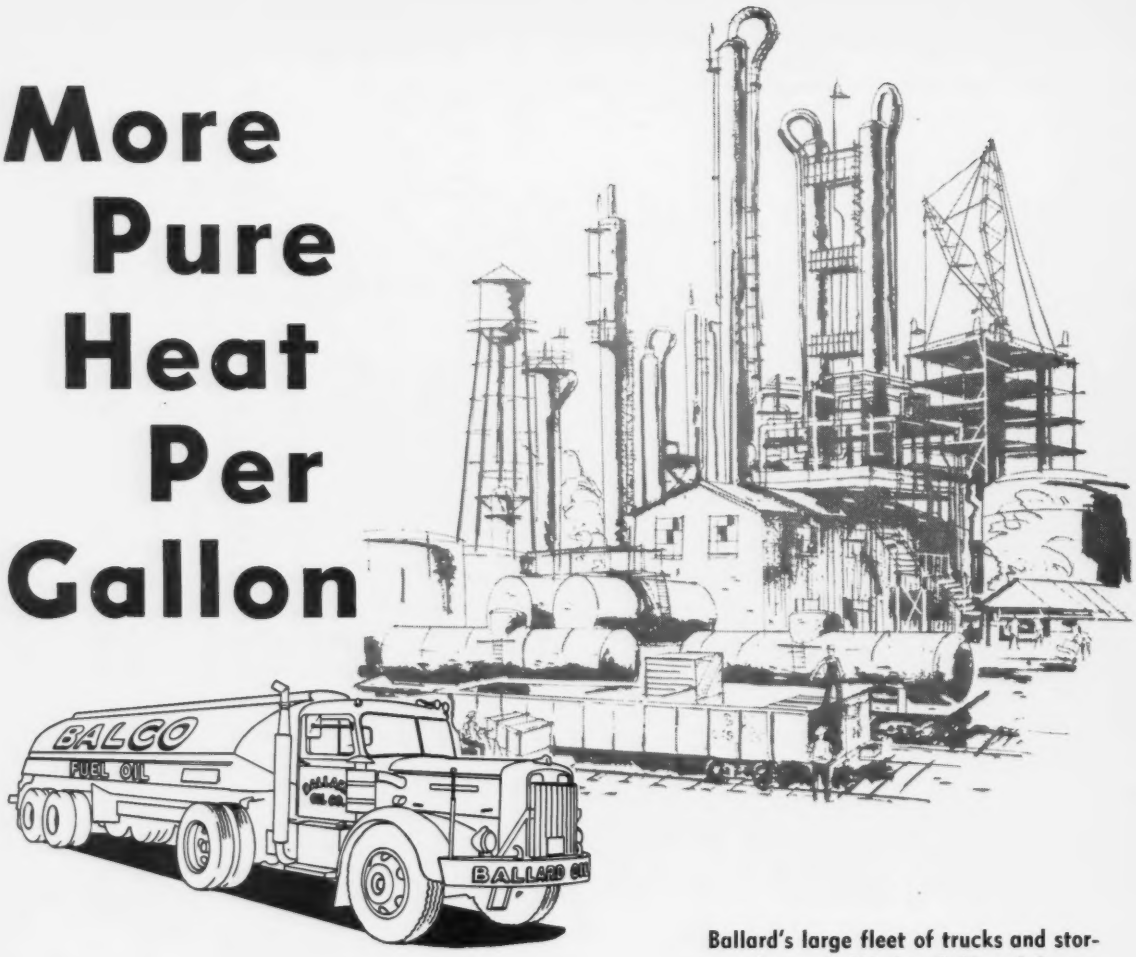
THE CONNECTICUT LIGHT & POWER CO.

THE HARTFORD ELECTRIC LIGHT CO.

THE HOUSATONIC PUBLIC SERVICE CO.

THE UNITED ILLUMINATING CO.

More Pure Heat Per Gallon



with

QUALITY SERVICE BALCO FUEL OILS

Bunker 'C'

Ballard's large fleet of trucks and storage depots in Wethersfield and Groton guarantee prompt, sure delivery and service in all weather conditions.

And the low cost and greater burning efficiency of Balco Bunker "C" guarantee comfort and satisfaction to all budget-minded users.

No wonder this winter finds more industries and institutions using Balco Bunker "C" than ever before!

Call a Ballard engineer today for expert advice on your heating plant.

JAckson 9-3341 in Hartford
HIlltop 5-9724 in Groton.

The BALLARD OIL Co.

QUALITY SERVICE BALCO FUEL OILS

HARTFORD, CONNECTICUT